

Appendix S3 to the paper

Zygmunt Kącki , Grzegorz Swacha, Attila Lengyel, Joanna Korzeniak. Formalized Hierarchically Nested Expert System for Classification of Mesic and Wet Grasslands in Poland. Acta Societatis Botanicorum Poloniae. DOI: 10.5586/asbp.8941

Appendix S3. Numeric and textual description of delimited vegetation units, and maps of distribution of relevés representing syntaxonomical units

Shortened synoptic tables show diagnostic species (only species with ϕ coefficient value ≥ 0.20 are shown; species with ϕ coefficient value ≥ 0.25 are in bold), constant species (only species with percentage frequency $\geq 40\%$ are shown; species with percentage frequency $\geq 60\%$ are in bold) and dominant species (only species with cover at least 25% in at least 5% of the cluster are shown) which were determined by analysing units equivalent in the hierarchical system, e.g. to determine diagnostic species for associations only relevés classified at the association level were considered. Diagnostic species are sorted with accordance to decreasing values of ϕ coefficient, constant species by the decreasing percentage frequency and dominant species by the decreasing percentage of relevés in which they dominate. Shortened synoptic table is based on the stratified data set (11,535 relevés).

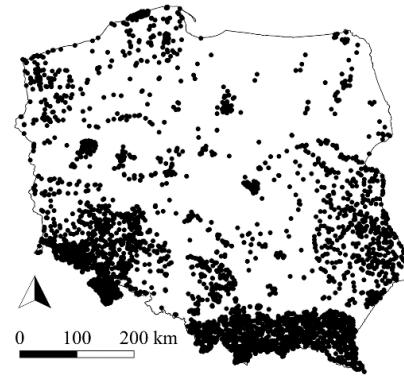
Cl.1 Molinio-Arrhenatheretea Tüxen 1937	3
O1. Arrhenatheretalia elatioris Tüxen 1931	3
All.1 Arrhenatherion elatioris Luquet 1926	4
Ass.1. <i>Pastinaco sativae</i> - <i>Arrhenatheretum elatioris</i> Passarge 1964.....	4
Ass.2. <i>Ranunculo bulbosi</i> - <i>Arrhenatheretum elatioris</i> Ellmauer in Mucina et al. 1993	5
Ass.3. <i>Anthyllidi-Trifolietum montani</i> W. Mat. 1981	5
Ass.4. <i>Poo-Trisetetum flavescens</i> Knapp ex Oberdorfer 1957	6
Ass.5. <i>Tanaceto vulgaris</i> - <i>Arrhenatheretum elatioris</i> Fischer ex Ellmauer in Mucina et al. 1993	6
All.2. Cynosurion cristati Tüxen 1947	6
Ass.6. <i>Lolio perennis</i> - <i>Cynosuretum cristati</i> Tüxen 1937	7
Ass.7. <i>Anthoxantho odorati</i> - <i>Agrostietum tenuis</i> Sillinger 1933.....	7
Ass.8. <i>Festuco-Cynosuretum</i> Büker 1941	8
All.3. Trisetio flavescens-Polygonion bistortae Br.-Bl. et Tüxen ex Marschall 1947	8
Ass.9. <i>Gladiolo-Agrostietum capillaris</i> (Br.-Bl. 1930) Pawł. et Wal. 1949	9
Ass.10. <i>Geranio sylvatici</i> - <i>Trisetetum flavescens</i> Knapp ex Oberdorfer 1957	9
Ass.11. <i>Crepido mollis</i> - <i>Agrostietum</i> Ružicková 2004.....	10
Ass.12. <i>Melandrio rubri</i> - <i>Phleetum alpini</i> Blažková in Krahulec et al. 1997	10
Ass.13. <i>Meo athamantici</i> - <i>Festucetum rubrae</i> Bartsch et Bartsch 1940	11
Ass.14. <i>Campanulo serratae</i> - <i>Agrostietum capillaris</i> Denisiuk et Korzeniak 1999.....	11
All.4. Poion alpinae Gams ex Oberd. 1950	12
Ass.15. <i>Alchemilletum pastoralis</i> Szafer et al. 1927	12
O.2. Molinietaalia caeruleae Koch 1926	13
All.5. Calthion palustris Tüxen 1937	13
Ass.16. <i>Angelico sylvestris</i> - <i>Cirsietum oleracei</i> Tüxen 1937.....	14

Ass.17. <i>Polygono bistortae-Trollietum europaei</i> (Hundt 1964) Bal.-Tul. 1981	14
Ass.18. <i>Cirsietum rivularis</i> Nowiński 1927	15
Ass.19. <i>Angelico sylvestris-Cirsietum palustris</i> Darimont ex Balátová-Tuláčková 1973	15
Ass.20. <i>Crepido paludosae-Juncetum acutiflori</i> Oberdorfer 1957	15
Ass.21. <i>Juncetum subnodulosi</i> Koch 1926 em. Oberdorfer 1957.....	16
Ass.22. <i>Polygono bistortae-Cirsietum heterophylli</i> Balátová-Tuláčková 1975.....	16
Ass.23. <i>Scirpetum sylvatici</i> Ralski 1931	17
Ass.24. <i>Scirpo sylvatici-Cirsietum cani</i> Balátová-Tuláčková 1973.....	17
Ass.25. <i>Caricetum cespitosae</i> Steffen 1931	17
Ass.26. <i>Scirpo sylvatici-Caricetum brizoidis</i> Kučera et al. 1994	18
Ass.27. <i>Epilobio palustri-Juncetum effusi</i> Oberdorfer 1957	18
All.6. <i>Filipendulion ulmariae</i> Segal ex Westhoff et Den Held 1969.....	19
Ass.28. <i>Junco inflexi-Menthetum longifoliae</i> Lohmeyer ex Oberdorfer 1957.....	19
Ass.29. <i>Filipendulo ulmariae-Geranium palustris</i> Koch 1926	19
Ass.30. <i>Lythro-Filipenduletum ulmariae</i> Hadač et al. 1997	20
Ass.31. <i>Lysimachio vulgaris-Filipenduletum ulmariae</i> Balátová-Tuláčková 1978.....	20
Ass.32. <i>Chaerophyllo hirsuti-Filipenduletum ulmariae</i> Niemann et al. 1973.....	20
Ass.33. <i>Phragmiti-Euphorbietum palustris</i> Issler 1932	21
All.7. <i>Deschampsion cespitosae</i> Horvatić 1930	21
Ass.34. <i>Lathyro palustris-Gratioletum officinalis</i> Balátová-Tuláčková 1966.....	21
Ass.35. <i>Cnidio dubii-Deschampsietum cespitosae</i> Passarge 1960	22
Ass.36. <i>Poo trivialis-Alopecuretum pratensis</i> Regel 1925	22
All.8. <i>Molinion caeruleae</i> Koch 1926	22
Ass.37. <i>Junco effusi-Molinietum caeruleae</i> Tüxen 1954	23
Ass.38. <i>Selino carvifoliae-Molinietum caeruleae</i> Kuhn 1937	23
Ass.39. <i>Galio veri-Molinietum</i> Kački 2007	24
Ass.40. <i>Galietum borealis</i> Nowiński 1927	24
O.3. <i>Potentillo-Polygonetalia avicularis</i> Tüxen 1947	25
All.9. <i>Potentillion anserinae</i> Tüxen 1947	25
Ass.41. <i>Rumici crisp-Agrostietum stoloniferae</i> Moor 1958.....	25
Ass.42. <i>Ranunculo repentis-Alopecuretum geniculati</i> Tüxen 1937.....	26
Ass.43. <i>Junco compressi-Trifolietum repentis</i> Eggler 1933	26
Ass.44. <i>Potentilletum anserinae</i> Rapaics 1927	26
Ass.45. <i>Potentilletum reptantis</i> (Eliáš 1974) Eliáš 1978.....	27

Cl.1 *Molinio-Arrhenatheretea* Tüxen 1937

Number of relevés: 11,535

Mean number of species: 28



Diagnostic species: *Ranunculus acris*, *Rumex acetosa*, *Anthoxanthum odoratum* s. l., *Veronica chamaedrys*, *Holcus lanatus*, *Plantago lanceolata*, *Schedonorus pratensis*, *Festuca rubra* s. l., *Poa pratensis* s. l., *Trifolium pratense* s. l., *Dactylis glomerata*, *Alchemilla vulgaris* agg., *Alopecurus pratensis*, *Deschampsia cespitosa*, *Cerastium fontanum* subsp. *vulgare*, *Trifolium repens*, *Achillea millefolium*, *Lathyrus pratensis*, *Ranunculus repens*, *Vicia cracca*, *Phleum pratense*, *Campanula patula*, *Silene flos-cuculi*, *Stellaria graminea*, *Agrostis capillaris*, *Hypericum maculatum*, *Heracleum sphondylium* s. l., *Trisetum flavescens*, *Leucanthemum vulgare* s. l., *Galium mollugo*, *Centaurea jacea* agg., *Arrhenatherum elatius*, *Angelica sylvestris*, *Taraxacum* sect. *Ruderalia*, *Leontodon hispidus*, *Poa trivialis*, *Vicia sepium*, *Prunella vulgaris*, *Lotus pedunculatus*, *Cynosurus cristatus*, *Luzula multiflora*, *Crepis biennis*, *Lotus corniculatus*, *Sanguisorba officinalis*, *Carex pallescens*, *Bistorta officinalis*

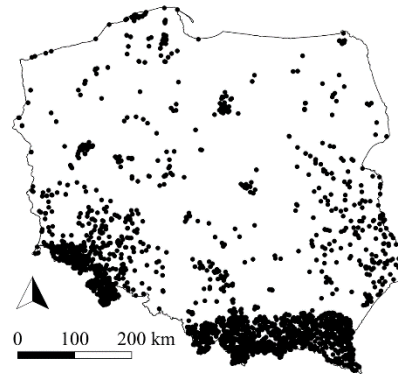
Constant species: *Rumex acetosa*, *Ranunculus acris*, *Festuca rubra* s. l., *Achillea millefolium*, *Plantago lanceolata*, *Anthoxanthum odoratum* s. l.

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Arrhenatherum elatius*, *Alopecurus pratensis*, *Molinia caerulea* s. l.

O1. *Arrhenatheretalia elatioris* Tüxen 1931

Number of relevés: 5221

Mean number of species: 30



Diagnostic species: *Agrostis capillaris*, *Dactylis glomerata*, *Achillea millefolium* agg., *Veronica chamaedrys*, *Campanula patula*, *Hypericum maculatum*, *Trifolium pratense* s. l., *Leontodon hispidus*, *Alchemilla vulgaris* agg., *Plantago lanceolata*, *Arrhenatherum elatius*, *Trisetum flavescens*, *Leucanthemum vulgare* s. l., *Lotus corniculatus*, *Heracleum sphondylium* s. l., *Knautia arvensis*, *Galium mollugo* agg., *Pimpinella saxifraga*, *Stellaria graminea*, *Phleum pratense*, *Crepis biennis*, *Anthoxanthum odoratum* s. l., *Trifolium repens*, *Festuca rubra* s. l., *Schedonorus pratensis*, *Holcus mollis*, *Vicia sepium*, *Taraxacum* sect. *Ruderalia*, *Rumex acetosa*, *Rhinanthus minor*, *Cruciata glabra*, *Ranunculus acris*, *Luzula multiflora*, *Cynosurus cristatus*, *Vicia cracca*, *Hypochaeris radicata*, *Luzula campestris*, *Cerastium fontanum* subsp. *vulgare*, *Carum carvi*, *Trifolium dubium*, *Pilosella officinarum*, *Chaerophyllum aromaticum*, *Thymus pulegioides*, *Daucus carota*, *Veronica officinalis*, *Centaurea jacea* agg., *Tragopogon pratensis* s. l., *Trifolium medium*, *Campanula rotundifolia*, *Polygala vulgaris* s. l., *Rumex acetosella*

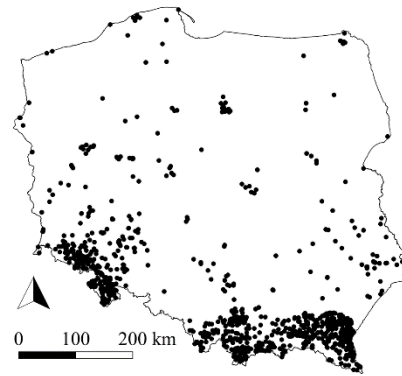
Constant species: *Achillea millefolium* agg., *Plantago lanceolata*, *Veronica chamaedrys*, *Rumex acetosa*, *Ranunculus acris*, *Festuca rubra* s. l., *Dactylis glomerata*, *Agrostis capillaris*, *Anthoxanthum odoratum* s. l., *Trifolium repens*, *Trifolium pratense* s. l., *Poa pratensis* s. l., *Taraxacum* sect. *Ruderalia*, *Schedonorus pratensis*, *Alchemilla vulgaris* agg., *Campanula patula*, *Hypericum maculatum*, *Galium mollugo* agg., *Vicia cracca*, *Stellaria graminea*, *Phleum pratense*, *Cerastium fontanum* subsp. *vulgare*, *Ranunculus repens*

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Arrhenatherum elatius*, *Trifolium repens*, *Dactylis glomerata*, *Trisetum flavescens*, *Schedonorus pratensis*, *Leontodon hispidus*, *Lolium perenne*, *Anthoxanthum odoratum* s. l.

All.1 *Arrhenatherion elatioris* Luquet 1926

Number of relevés: 1494

Mean number of species: 29



Diagnostic species: *Arrhenatherum elatius*, *Dactylis glomerata*, *Galium mollugo* agg., *Crepis biennis*, *Heracleum sphondylium* s. l., *Convolvulus arvensis*, *Geranium pratense*, *Daucus carota*, *Vicia hirsuta*, *Vicia sepium*

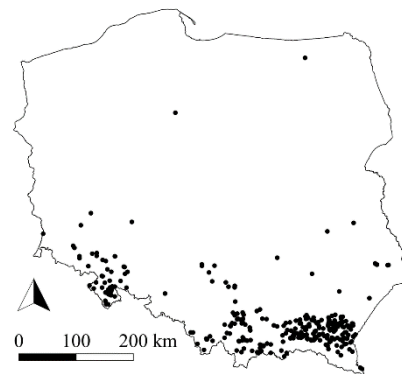
Constant species: *Dactylis glomerata*, *Achillea millefolium* agg., *Arrhenatherum elatius*, *Veronica chamaedrys*, *Rumex acetosa*, *Ranunculus acris*, *Plantago lanceolata*, *Poa pratensis* s. l., *Galium mollugo* agg., *Trifolium pratense* s. l., *Schedonorus pratensis*, *Heracleum sphondylium* s. l., *Anthoxanthum odoratum* s. l., *Festuca rubra* s. l., *Taraxacum* sect. *Ruderalia*, *Holcus lanatus*, *Vicia cracca*, *Phleum pratense*, *Agrostis capillaris*, *Lathyrus pratensis*, *Campanula patula*, *Ranunculus repens*

Dominant species: *Arrhenatherum elatius*, *Dactylis glomerata*, *Agrostis capillaris*, *Festuca rubra* s. l., *Phleum pratense*, *Trisetum flavescens*, *Schedonorus pratensis*, *Geranium pratense*

Ass.1. *Pastinaco sativae*-*Arrhenatheretum elatioris* Passarge 1964

Number of relevés: 340

Mean number of species: 30



Diagnostic species: *Crepis biennis*, *Geranium pratense*, *Arrhenatherum elatius*, *Heracleum sphondylium* s. l., *Dactylis glomerata*

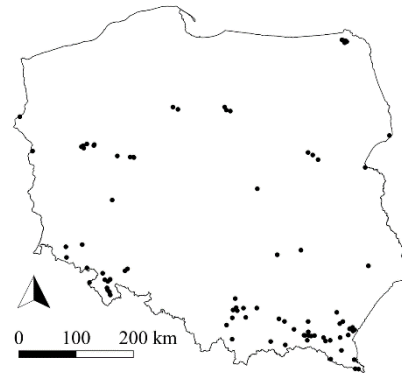
Constant species: *Heracleum sphondylium* s. l., *Dactylis glomerata*, *Arrhenatherum elatius*, *Achillea millefolium* agg., *Crepis biennis*, *Plantago lanceolata*, *Trifolium pratense* s. l., *Ranunculus acris*, *Rumex acetosa*, *Veronica chamaedrys*, *Galium mollugo* agg., *Poa pratensis* s. l., *Schedonorus pratensis*, *Taraxacum* sect. *Ruderalia*, *Holcus lanatus*, *Trisetum flavescens*, *Anthoxanthum odoratum* s. l., *Leucanthemum vulgare* s. l., *Geranium pratense*, *Lathyrus pratensis*, *Campanula patula*, *Vicia sepium*, *Trifolium repens*, *Alopecurus pratensis*, *Leontodon hispidus*, *Alchemilla vulgaris* agg., *Ranunculus repens*

Dominant species: *Arrhenatherum elatius*, *Dactylis glomerata*, *Geranium pratense*, *Trisetum flavescens*, *Festuca rubra* s. l.

**Ass.2. *Ranunculo bulbosi-Arrhenatheretum elatioris*
Ellmauer in Mucina et al. 1993**

Number of relevés: 109

Mean number of species: 35



Diagnostic species: *Pimpinella saxifraga*, *Plantago media*, *Galium verum*, *Arrhenatherum elatius*, *Ranunculus bulbosus*, *Hypericum perforatum*, *Sedum acre*, *Agrimonia eupatoria*, *Vicia villosa*, *Daucus carota*, *Jacobaea vulgaris*

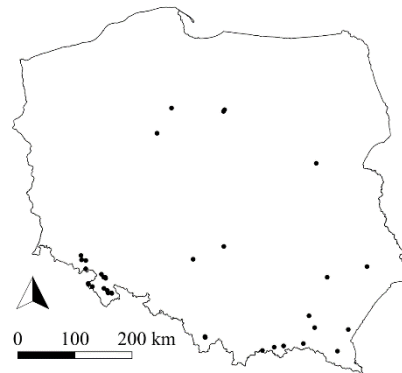
Constant species: *Pimpinella saxifraga*, *Dactylis glomerata*, *Arrhenatherum elatius*, *Achillea millefolium* agg., *Veronica chamaedrys*, *Plantago lanceolata*, *Galium mollugo* agg., *Galium verum*, *Poa pratensis* s. l., *Rumex acetosa*, *Anthoxanthum odoratum* s. l., *Knautia arvensis*, *Trifolium pratense* s. l., *Plantago media*, *Vicia cracca*, *Schedonorus pratensis*, *Ranunculus acris*, *Festuca rubra* s. l., *Taraxacum* sect. *Ruderalia*, *Leucanthemum vulgare* s. l., *Leontodon hispidus*, *Lotus corniculatus*, *Centaurea jacea* agg., *Holcus lanatus*, *Agrostis capillaris*

Dominant species: *Arrhenatherum elatius*, *Dactylis glomerata*, *Agrostis capillaris*, *Thymus pulegioides*, *Festuca rubra* s. l., *Trisetum flavescens*, *Trifolium pratense* s. l., *Daucus carota*

Ass.3. *Anthyllidi-Trifolietum montani* W. Mat. 1981

Number of relevés: 45

Mean number of species: 32



Diagnostic species: *Securigera varia*, *Centaurea scabiosa*, *Hylotelephium maximum*, *Carlina acaulis*, *Euphorbia cyparissias*, *Knautia arvensis*, *Gentiana cruciata*, *Thymus pulegioides*, *Silene viscaria*, *Sanguisorba minor*, *Arrhenatherum elatius*, *Silene nutans*, *Medicago falcata*, *Clinopodium vulgare*, *Scabiosa ochroleuca*, *Astragalus glycyphyllos*, *Erigeron acris*, *Daucus carota*, *Onobrychis viciifolia*, *Dianthus deltoides*, *Fragaria vesca*, *Galium mollugo* agg., *Convolvulus arvensis*, *Bromopsis erecta*, *Pimpinella saxifraga*, *Fragaria viridis*, *Trifolium arvense*

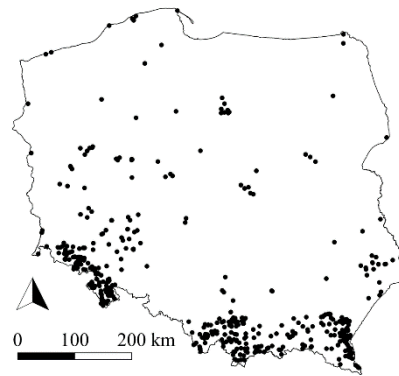
Constant species: *Dactylis glomerata*, *Knautia arvensis*, *Galium mollugo* agg., *Arrhenatherum elatius*, *Achillea millefolium* agg., *Securigera varia*, *Pimpinella saxifraga*, *Festuca rubra* s. l., *Thymus pulegioides*, *Lotus corniculatus*, *Poa pratensis* s. l., *Plantago lanceolata*, *Anthoxanthum odoratum* s. l., *Veronica chamaedrys*, *Leucanthemum vulgare* s. l., *Briza media*, *Rumex acetosa*, *Schedonorus pratensis*, *Centaurea scabiosa*, *Centaurea jacea* agg., *Carlina acaulis*, *Agrostis capillaris*

Dominant species: *Arrhenatherum elatius*, *Agrostis capillaris*, *Festuca rubra* s. l., *Dactylis glomerata*, *Thymus pulegioides*

Ass.4. *Poo-Trisetetum flavescentis* Knapp ex Oberdorfer 1957

Number of relevés: 596

Mean number of species: 27



Diagnostic species: *Arrhenatherum elatius*, *Dactylis glomerata*

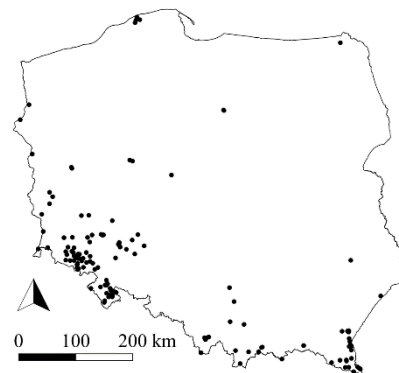
Constant species: *Dactylis glomerata*, *Arrhenatherum elatius*, *Achillea millefolium* agg., *Veronica chamaedrys*, *Rumex acetosa*, *Ranunculus acris*, *Plantago lanceolata*, *Galium mollugo* agg., *Poa pratensis* s. l., *Festuca rubra* s. l., *Anthoxanthum odoratum* s. l., *Trifolium pratense* s. l., *Agrostis capillaris*, *Holcus lanatus*, *Schedonorus pratensis*, *Phleum pratense*, *Vicia cracca*, *Taraxacum* sect. *Ruderalia*, *Campanula patula*, *Stellaria graminea*, *Alchemilla vulgaris* agg., *Ranunculus repens*, *Hypericum maculatum*

Dominant species: *Arrhenatherum elatius*, *Festuca rubra* s. l., *Agrostis capillaris*, *Dactylis glomerata*, *Schedonorus pratensis*, *Phleum pratense*

Ass.5. *Tanacetum vulgare*-*Arrhenatheretum elatioris* Fischer ex Ellmauer in Mucina et al. 1993

Number of relevés: 181

Mean number of species: 28



Diagnostic species: *Anthriscus sylvestris*, *Chaerophyllum aromaticum*, *Arrhenatherum elatius*, *Solidago canadensis* s. l., *Dactylis glomerata*, *Artemisia vulgaris*

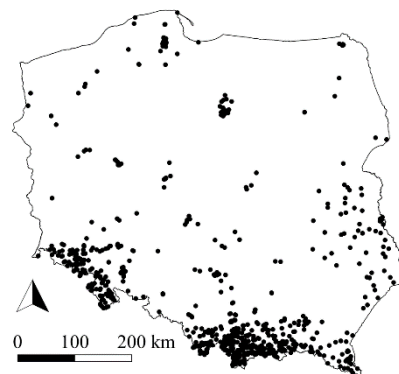
Constant species: *Dactylis glomerata*, *Galium mollugo* agg., *Achillea millefolium* agg., *Arrhenatherum elatius*, *Rumex acetosa*, *Veronica chamaedrys*, *Phleum pratense*, *Vicia cracca*, *Agrostis capillaris*, *Poa pratensis* s. l., *Anthriscus sylvestris*, *Festuca rubra* s. l., *Cirsium arvense*, *Ranunculus repens*, *Schedonorus pratensis*, *Urtica dioica*, *Elytrigia repens*, *Lathyrus pratensis*, *Hypericum maculatum*, *Holcus lanatus*, *Chaerophyllum aromaticum*, *Stellaria graminea*, *Ranunculus acris*

Dominant species: *Arrhenatherum elatius*, *Dactylis glomerata*, *Agrostis capillaris*, *Festuca rubra* s. l., *Phleum pratense*

All.2. *Cynosurion cristati* Tüxen 1947

Number of relevés: 1102

Mean number of species: 31



Diagnostic species: *Lolium perenne*, *Trifolium repens*, *Cynosurus cristatus*, *Hypochaeris radicata*, *Scorzoneroideis autumnalis*, *Plantago lanceolata*, *Leontodon hispidus*, *Trifolium dubium*, *Taraxacum* sect. *Ruderalia*, *Pimpinella*

saxifraga, *Trifolium pratense* s. l., *Prunella vulgaris*, *Cerastium fontanum* subsp. *vulgare*, *Lotus corniculatus*, *Achillea millefolium*, *Bellis perennis*

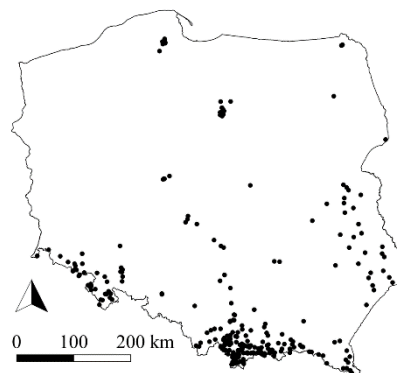
Constant species: *Trifolium repens*, *Achillea millefolium*, *Plantago lanceolata*, *Taraxacum* sect. *Ruderalia*, *Ranunculus acris*, *Trifolium pratense* s. l., *Agrostis capillaris*, *Festuca rubra* s. l., *Cerastium fontanum* subsp. *vulgare*, *Anthoxanthum odoratum* s. l., *Veronica chamaedrys*, *Rumex acetosa*, *Schedonorus pratensis*, *Dactylis glomerata*, *Alchemilla vulgaris* agg., *Leontodon hispidus*, *Ranunculus repens*, *Phleum pratense*, *Cynosurus cristatus*, *Poa pratensis* s. l., *Prunella vulgaris*, *Stellaria graminea*, *Campanula patula*, *Leucanthemum vulgare* s. l.

Dominant species: *Trifolium repens*, *Agrostis capillaris*, *Festuca rubra* s. l., *Lolium perenne*, *Leontodon hispidus*

Ass.6. *Lolium perennis*-*Cynosuretum cristati* Tüxen 1937

Number of relevés: 383

Mean number of species: 35



Diagnostic species: *Cynosurus cristatus*, *Scorzoneroideis autumnalis*, *Lolium perenne*, *Carum carvi*, *Bellis perennis*, *Prunella vulgaris*, *Trifolium repens*

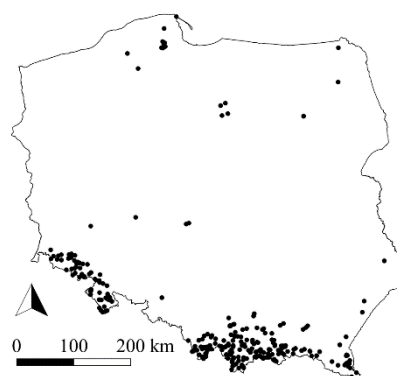
Constant species: *Trifolium repens*, *Plantago lanceolata*, *Cynosurus cristatus*, *Trifolium pratense* s. l., *Prunella vulgaris*, *Scorzoneroideis autumnalis*, *Achillea millefolium*, *Taraxacum* sect. *Ruderalia*, *Ranunculus acris*, *Cerastium fontanum* subsp. *vulgare*, *Lolium perenne*, *Schedonorus pratensis*, *Ranunculus repens*, *Poa pratensis* s. l., *Festuca rubra* s. l., *Bellis perennis*, *Carum carvi*, *Alchemilla vulgaris* agg., *Veronica chamaedrys*, *Deschampsia cespitosa*, *Agrostis capillaris*

Dominant species: *Trifolium repens*, *Lolium perenne*, *Cynosurus cristatus*, *Schedonorus pratensis*

Ass.7. *Anthoxantho odorati*-*Agrostietum tenuis* Sillinger 1933

Number of relevés: 355

Mean number of species: 33



Diagnostic species: *Hypochaeris radicata*, *Trifolium repens*, *Leontodon hispidus*

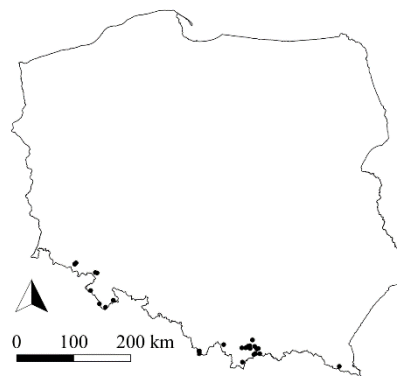
Constant species: *Trifolium repens*, *Achillea millefolium* agg., *Anthoxanthum odoratum* s. l., *Agrostis capillaris*, *Festuca rubra* s. l., *Plantago lanceolata*, *Veronica chamaedrys*, *Rumex acetosa*, *Ranunculus acris*, *Trifolium pratense* s. l., *Cerastium fontanum* subsp. *vulgare*, *Stellaria graminea*, *Hypericum maculatum*, *Leontodon hispidus*, *Dactylis glomerata*, *Campanula patula*, *Taraxacum* sect. *Ruderalia*, *Schedonorus pratensis*, *Phleum pratense*, *Leucanthemum vulgare* s. l., *Alchemilla vulgaris* agg., *Ranunculus repens*, *Luzula multiflora*, *Poa pratensis* s. l., *Pimpinella saxifraga*, *Vicia cracca*, *Lotus corniculatus*, *Holcus lanatus*, *Trisetum flavescens*

Dominant species: *Festuca rubra* s. l., *Agrostis capillaris*, *Trifolium repens*, *Leontodon hispidus*, *Anthoxanthum odoratum* s. l., *Trisetum flavescens*, *Rhytidadelphus squarrosus*, *Schedonorus pratensis*

Ass.8. *Festuco-Cynosuretum* Büker 1941

Number of relevés: 37

Mean number of species: 39



Diagnostic species: *Alchemilla hybrida* agg., *Leontodon hispidus*, *Trifolium repens*, *Alchemilla vulgaris* agg., *Arabidopsis halleri*, *Trisetum flavescens*, *Anthyllis vulneraria* agg., *Euphrasia rostkoviana*, *Crepis mollis* s. l.

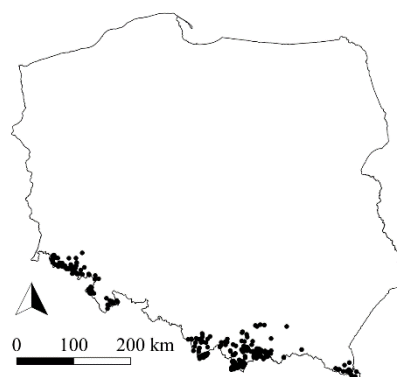
Constant species: *Trifolium repens*, *Alchemilla vulgaris* agg., *Achillea millefolium* agg., *Veronica chamaedrys*, *Ranunculus acris*, *Plantago lanceolata*, *Festuca rubra* s. l., *Anthoxanthum odoratum* s. l., *Agrostis capillaris*, *Rumex acetosa*, *Trifolium pratense* s. l., *Leontodon hispidus*, *Hypericum maculatum*, *Vicia cracca*, *Trisetum flavescens*, *Dactylis glomerata*, *Campanula patula*, *Taraxacum* sect. *Ruderalia*, *Phleum pratense*, *Stellaria graminea*, *Cerastium fontanum* subsp. *vulgare*, *Centaurea jacea* agg., *Schedonorus pratensis*, *Pimpinella saxifraga*, *Lotus corniculatus*, *Arabidopsis halleri*, *Luzula multiflora*, *Ranunculus repens*, *Knautia arvensis*, *Heracleum sphondylium* s. l., *Cynosurus cristatus*, *Leucanthemum vulgare* s. l., *Cruciata glabra*, *Crepis mollis* s. l.

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Trifolium repens*, *Trisetum flavescens*, *Leontodon hispidus*, *Trifolium pratense* s. l., *Anthoxanthum odoratum* s. l., *Taraxacum* sect. *Ruderalia*, *Rhytiadelphus squarrosus*, *Briza media*

All.3. *Triseti flavescens-Polygonion bistortae* Br.-Bl. et Tüxen ex Marschall 1947

Number of relevés: 442

Mean number of species: 34



Diagnostic species: *Hypericum maculatum*, *Luzula luzuloides*, *Agrostis capillaris*, *Cruciata glabra*, *Campanula patula*, *Crepis mollis* s. l., *Holcus mollis*, *Knautia arvensis*, *Trifolium medium*, *Gentiana asclepiadea*, *Cirsium helenioides*, *Phyteuma spicatum*, *Veronica chamaedrys*, *Potentilla erecta*, *Stellaria graminea*, *Alchemilla vulgaris* agg., *Carlina acaulis*, *Arabidopsis halleri*, *Leucanthemum vulgare* s. l., *Centaurea phrygia*, *Luzula multiflora*, *Ranunculus polyanthemus* s. l., *Senecio nemorensis* agg., *Polygala vulgaris* s. l., *Trisetum flavescens*, *Astrantia major*, *Gladiolus imbricatus*, *Platanthera bifolia*, *Poa chaixii*, *Campanula serrata*

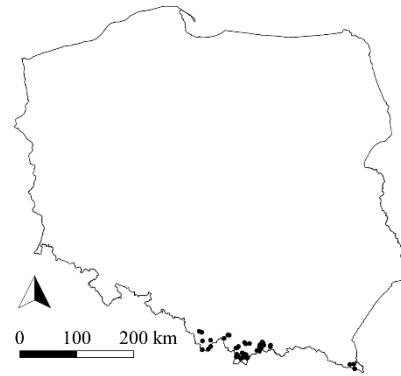
Constant species: *Agrostis capillaris*, *Hypericum maculatum*, *Veronica chamaedrys*, *Festuca rubra* s. l., *Ranunculus acris*, *Achillea millefolium* agg., *Rumex acetosa*, *Alchemilla vulgaris* agg., *Stellaria graminea*, *Campanula patula*, *Anthoxanthum odoratum* s. l., *Plantago lanceolata*, *Vicia cracca*, *Dactylis glomerata*, *Leucanthemum vulgare* s. l., *Potentilla erecta*, *Phleum pratense*, *Cruciata glabra*, *Heracleum sphondylium* s. l., *Trifolium repens*, *Luzula multiflora*, *Schedonorus pratensis*, *Deschampsia cespitosa*

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Alchemilla vulgaris* agg., *Hypericum maculatum*, *Cirsium helenioides*, *Rhytiadelphus squarrosus*, *Dactylis glomerata*, *Trisetum flavescens*, *Arrhenatherum elatius*, *Anthoxanthum odoratum* s. l.

**Ass.9. *Gladiolo-Agrostietum capillaris* (Br.-Bl. 1930)
Pawl. et Wal. 1949**

Number of relevés: 60

Mean number of species: 43



Diagnostic species: *Gladiolus imbricatus*, *Centaurea oxylepis*, *Trifolium medium*, *Ranunculus polyanthemos* s. l., *Campanula glomerata*, *Astrantia major*, *Cruciata glabra*, *Pimpinella major*, *Laserpitium latifolium*, *Hypericum maculatum*, *Luzula luzuloides*, *Knautia arvensis*, *Leucanthemum vulgare* s. l., *Campanula patula*, *Tragopogon pratensis* s. l., *Arabidopsis halleri*, *Primula elatior*, *Polygala vulgaris* s. l., *Leontodon hispidus*, *Cirsium erisithales*, *Agrostis capillaris*

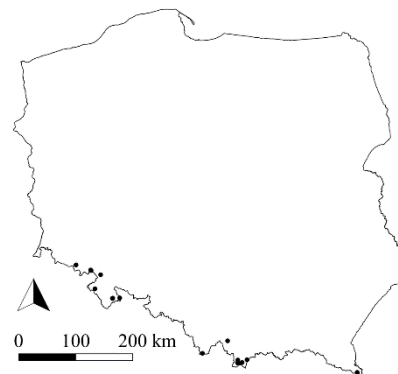
Constant species: *Agrostis capillaris*, *Hypericum maculatum*, *Achillea millefolium* agg., *Ranunculus acris*, *Veronica chamaedrys*, *Stellaria graminea*, *Rumex acetosa*, *Leucanthemum vulgare* s. l., *Festuca rubra* s. l., *Campanula patula*, *Alchemilla vulgaris* agg., *Centaurea jacea* agg., *Anthoxanthum odoratum* s. l., *Plantago lanceolata*, *Gladiolus imbricatus*, *Vicia cracca*, *Cruciata glabra*, *Schedonorus pratensis*, *Potentilla erecta*, *Leontodon hispidus*, *Knautia arvensis*, *Heracleum sphondylium* s. l., *Trifolium repens*, *Trifolium medium*, *Lotus corniculatus*, *Luzula multiflora*, *Centaurea oxylepis*, *Briza media*, *Trisetum flavescens*, *Carex pallescens*, *Pimpinella major*, *Trifolium pratense* s. l., *Dactylis glomerata*, *Arabidopsis halleri*, *Ranunculus polyanthemos* s. l., *Prunella vulgaris*, *Primula elatior*, *Phleum pratense*, *Campanula glomerata*, *Galium mollugo* agg.

Dominant species: *Agrostis capillaris*, *Alchemilla vulgaris* agg., *Astrantia major*, *Rhytidadelphus squarrosus*, *Festuca rubra* s. l., *Anthoxanthum odoratum* s. l., *Plantago lanceolata*, *Hypericum maculatum*, *Dactylis glomerata*, *Centaurea oxylepis*, *Centaurea jacea* agg., *Trisetum flavescens*, *Schedonorus pratensis*, *Rhinanthus minor*, *Briza media*, *Arrhenatherum elatius*

**Ass.10. *Geranio sylvatici-Trisetetum flavescens*
Knapp ex Oberdorfer 1957**

Number of relevés: 20

Mean number of species: 32



Diagnostic species: *Geranium sylvaticum*, *Phyteuma spicatum*, *Epilobium alpestre*, *Silene dioica*, *Galium pumilum*, *Aconitum firmum*, *Hypericum maculatum*, *Vicia sepium*

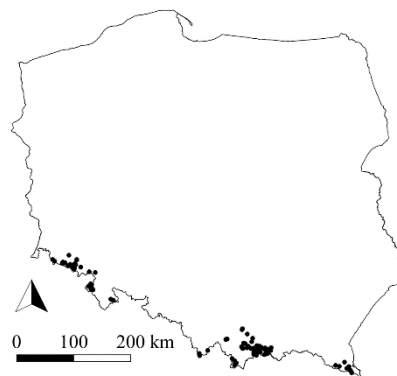
Constant species: *Veronica chamaedrys*, *Phyteuma spicatum*, *Hypericum maculatum*, *Geranium sylvaticum*, *Ranunculus acris*, *Festuca rubra* s. l., *Alchemilla vulgaris* agg., *Achillea millefolium* agg., *Rumex acetosa*, *Agrostis capillaris*, *Heracleum sphondylium* s. l., *Vicia sepium*, *Vicia cracca*, *Trifolium pratense* s. l., *Stellaria graminea*, *Dactylis glomerata*, *Bistorta officinalis*, *Alopecurus pratensis*, *Trisetum flavescens*, *Ranunculus repens*, *Myosotis scorpioides* s. l., *Lathyrus pratensis*, *Campanula patula*

Dominant species: *Festuca rubra* s. l., *Dactylis glomerata*, *Agrostis capillaris*, *Poa chaixii*, *Trisetum flavescens*, *Rhytidadelphus squarrosus*, *Phleum pratense*, *Hypericum maculatum*, *Crocus vernus*, *Cirsium helenioides*, *Cirriphyllum piliferum*, *Atrichum undulatum*, *Alchemilla vulgaris* agg.

Ass.11. *Crepido mollis*-*Agrostietum* Ružičková 2004

Number of relevés: 137

Mean number of species: 35



Diagnostic species: *Crepis mollis* s. l., *Arabidopsis halleri*, *Luzula luzuloides*, *Astrantia major*, *Phyteuma spicatum*, *Campanula patula*

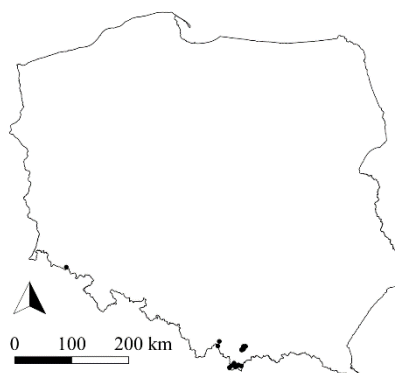
Constant species: *Agrostis capillaris*, *Ranunculus acris*, *Alchemilla vulgaris* agg., *Veronica chamaedrys*, *Festuca rubra* s. l., *Rumex acetosa*, *Hypericum maculatum*, *Campanula patula*, *Achillea millefolium* agg., *Crepis mollis* s. l., *Anthoxanthum odoratum* s. l., *Plantago lanceolata*, *Stellaria graminea*, *Arabidopsis halleri*, *Leucanthemum vulgare* s. l., *Dactylis glomerata*, *Cruciata glabra*, *Vicia cracca*, *Trisetum flavescens*, *Trifolium repens*, *Luzula multiflora*, *Trifolium pratense* s. l., *Potentilla erecta*, *Heracleum sphondylium* s. l., *Knautia arvensis*, *Centaurea jacea* agg., *Galium mollugo* agg., *Schedonorus pratensis*, *Phleum pratense*

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Alchemilla vulgaris* agg., *Hypericum maculatum*, *Luzula luzuloides*, *Cirsium helenioides*, *Arrhenatherum elatius*, *Rhytidadelphus squarrosus*, *Astrantia major*, *Dactylis glomerata*, *Anthoxanthum odoratum* s. l.

Ass.12. *Melandrio rubri*-*Phleetum alpini* Blažková in Krahulec et al. 1997

Number of relevés: 20

Mean number of species: 32



Diagnostic species: *Potentilla aurea*, *Phleum alpinum*, *Geum montanum*, *Rumex arifolius*, *Jacobaea subalpina*, *Ligusticum mutellina*, *Vaccinium myrtillus*, *Phyteuma spicatum*, *Campanula kladniana*, *Luzula sylvatica*, *Gentianella austriaca*, *Homogyne alpina*, *Poa chaixii*, *Pilosella aurantiaca*, *Veronica officinalis*, *Silene dioica*, *Luzula luzuloides*, *Anthriscus nitidus*, *Veratrum lobelianum*, *Alchemilla vulgaris* agg., *Juniperus communis*-sl

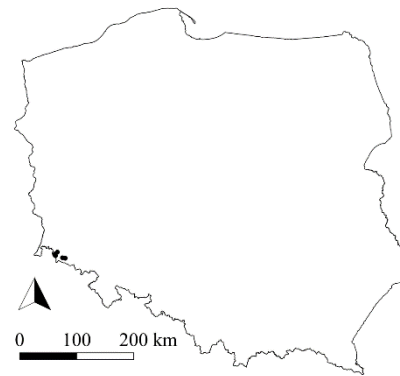
Constant species: *Alchemilla vulgaris* agg., *Agrostis capillaris*, *Veronica chamaedrys*, *Potentilla aurea*, *Achillea millefolium* agg., *Ranunculus acris*, *Phleum alpinum*, *Hypericum maculatum*, *Rumex arifolius*, *Festuca rubra* s. l., *Deschampsia cespitosa*, *Jacobaea subalpina*, *Stellaria graminea*, *Cerastium fontanum* subsp. *vulgare*, *Anthoxanthum odoratum* s. l., *Phyteuma spicatum*, *Trisetum flavescens*, *Trifolium repens*, *Potentilla erecta*, *Poa trivialis*, *Poa pratensis* s. l., *Luzula multiflora*, *Rumex acetosa*, *Nardus stricta*, *Myosotis scorpioides* s. l., *Arabidopsis halleri*

Dominant species: *Agrostis capillaris*, *Festuca rubra* s. l., *Alchemilla vulgaris* agg., *Rhytidadelphus squarrosus*, *Rumex arifolius*, *Poa trivialis*, *Hypericum maculatum*, *Poa chaixii*, *Plantago lanceolata*, *Festuca ovina* agg.

**Ass.13. *Meo athamantici-Festucetum rubrae*
Bartsch et Bartsch 1940**

Number of relevés: 7

Mean number of species: 24



Diagnostic species: *Galium saxatile*, *Meum athamanticum*, *Crocus vernus*, *Campanula rotundifolia*, *Lysimachia nemorum*, *Galeopsis tetrahit* s. l., *Picea abies*-hl, *Rhytiadelphus squarrosus*, *Senecio nemorensis* agg.

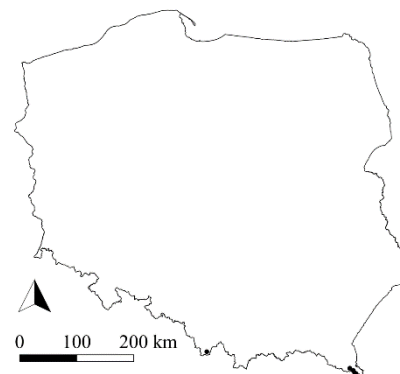
Constant species: *Meum athamanticum*, *Galium saxatile*, *Festuca rubra* s. l., *Agrostis capillaris*, *Veronica chamaedrys*, *Rhytiadelphus squarrosus*, *Potentilla erecta*, *Hypericum maculatum*, *Campanula rotundifolia*, *Anthoxanthum odoratum* s. l., *Rumex acetosa*, *Galeopsis tetrahit* s. l., *Deschampsia cespitosa*, *Crocus vernus*, *Achillea millefolium* agg., *Stellaria graminea*, *Senecio nemorensis* agg., *Ranunculus acris*, *Phleum pratense*, *Luzula multiflora*, *Knautia arvensis*, *Dactylis glomerata*, *Chaerophyllum hirsutum*

Dominant species: *Festuca rubra* s. l., *Agrostis capillaris*, *Rhytiadelphus squarrosus*, *Pseudoscleropodium purum*, *Meum athamanticum*

**Ass.14. *Campanulo serratae-Agrostietum capillaris*
Denisiuk et Korzeniak 1999**

Number of relevés: 9

Mean number of species: 52



Diagnostic species: *Campanula serrata*, *Dianthus barbatus*, *Rumex alpinus*, *Gymnadenia conopsea*, *Poa chaixii*, *Trifolium medium*, *Gentiana asclepiadea*, *Trifolium hybridum*, *Holcus mollis*, *Thymus pulegioides*, *Rosa canina* agg.-sl, *Centaurea phrygia*, *Knautia arvensis*, *Cruciata glabra*, *Pimpinella saxifraga*, *Viola tricolor* s. l., *Hieracium lachenalii* s. l., *Vicia sepium*, *Campanula patula*, *Pilosella aurantiaca*, *Carex pilulifera*, *Carex pallescens*, *Potentilla erecta*, *Veronica officinalis*, *Equisetum arvense*, *Hypericum maculatum*, *Nardus stricta*, *Centaurea jacea* agg., *Vicia cracca*

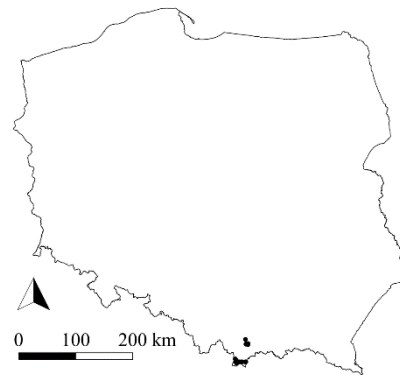
Constant species: *Vicia cracca*, *Rumex acetosa*, *Potentilla erecta*, *Knautia arvensis*, *Hypericum maculatum*, *Festuca rubra* s. l., *Deschampsia cespitosa*, *Campanula patula*, *Achillea millefolium* agg., *Veronica chamaedrys*, *Trifolium medium*, *Plantago lanceolata*, *Pimpinella saxifraga*, *Holcus mollis*, *Galium mollugo* agg., *Cruciata glabra*, *Centaurea jacea* agg., *Campanula serrata*, *Anthoxanthum odoratum* s. l., *Agrostis capillaris*, *Vicia sepium*, *Thymus pulegioides*, *Stellaria graminea*, *Leucanthemum vulgare* s. l., *Lathyrus pratensis*, *Carex pallescens*, *Trisetum flavescens*, *Trifolium hybridum*, *Schedonorus pratensis*, *Ranunculus repens*, *Ranunculus acris*, *Poa chaixii*, *Phleum pratense*, *Gymnadenia conopsea*, *Equisetum arvense*, *Briza media*, *Poa pratensis* s. l., *Nardus stricta*, *Luzula multiflora*, *Lotus corniculatus*, *Gentiana asclepiadea*, *Dianthus barbatus*, *Dactylis glomerata*, *Cynosurus cristatus*, *Angelica sylvestris*, *Alchemilla vulgaris* agg., *Veronica officinalis*, *Trifolium pratense* s. l., *Rumex alpinus*, *Rhinanthus minor*, *Prunella vulgaris*, *Polygala vulgaris* s. l., *Myosotis scorpioides* s. l., *Heracleum sphondylium* s. l., *Cirsium palustre*, *Centaurea phrygia*, *Arabidopsis halleri*

Dominant species: *Agrostis capillaris*, *Hypericum maculatum*, *Trisetum flavescens*, *Poa chaixii*, *Dianthus barbatus*, *Briza media*, *Alchemilla vulgaris* agg.

All.4. *Poion alpinae* Gams ex Oberd. 1950

Number of relevés: 23

Mean number of species: 42



Diagnostic species: *Poa alpina*, *Phleum alpinum*, *Jacobaea subalpina*, *Rumex arifolius*, *Potentilla aurea*, *Arabidopsis halleri*, *Crocus vernus*, *Ligusticum mutellina*, *Geranium sylvaticum*, *Carum carvi*, *Alchemilla vulgaris* agg., *Leontodon hispidus*, *Chaerophyllum hirsutum*, *Soldanella carpatica*, *Primula elatior*, *Gnaphalium sylvaticum*, *Calliergonella lindbergii*, *Taraxacum* sect. *Ruderalia*, *Cerastium fontanum* subsp. *vulgare*, *Geum montanum*, *Agrostis capillaris*, *Trifolium pratense* s. l., *Phyteuma spicatum*, *Campanula kladniana*, *Trifolium repens*, *Silene dioica*, *Petasites kablikianus*, *Veratrum lobelianum*, *Poa trivialis*, *Myosotis scorpioides* s. l., *Ranunculus lanuginosus*, *Atrichum undulatum*, *Viola tricolor* s. l., *Picea abies*-hl, *Astrantia major*, *Veronica serpyllifolia*, *Sagina saginoides*, *Prunella vulgaris*, *Viola biflora*, *Veronica chamaedrys*, *Nardus stricta*, *Gymnadenia conopsea*, *Rhinanthus angustifolius*, *Thymus alpestris*, *Salix eleagnos*-hl, *Cerastium arvense* subsp. *glandulosum*, *Arabis alpina*, *Thymus pulcherrimus*, *Polytrichum juniperinum*, *Alchemilla glabra* s. l., *Petasites albus*, *Epilobium collinum*, *Tussilago farfara*, *Epilobium alpestre*, *Vaccinium myrtillus*, *Ranunculus acris*

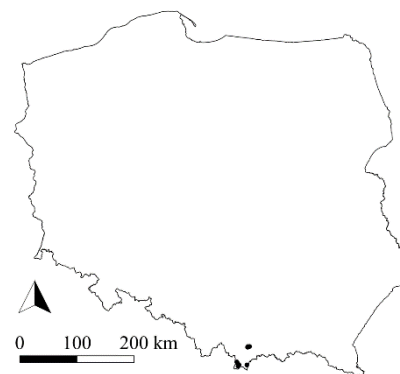
Constant species: *Poa alpina*, *Alchemilla vulgaris* agg., *Ranunculus acris*, *Taraxacum* sect. *Ruderalia*, *Cerastium fontanum* subsp. *vulgare*, *Agrostis capillaris*, *Veronica chamaedrys*, *Trifolium repens*, *Achillea millefolium* agg., *Trifolium pratense* s. l., *Leontodon hispidus*, *Poa trivialis*, *Festuca rubra* s. l., *Ranunculus repens*, *Jacobaea subalpina*, *Phleum alpinum*, *Deschampsia cespitosa*, *Arabidopsis halleri*, *Anthoxanthum odoratum* s. l., *Rumex arifolius*, *Myosotis scorpioides* s. l., *Hypericum maculatum*, *Stellaria graminea*, *Schedonorus pratensis*, *Prunella vulgaris*, *Potentilla aurea*, *Poa pratensis* s. l., *Carum carvi*, *Primula elatior*, *Luzula multiflora*, *Chaerophyllum hirsutum*, *Briza media*

Dominant species: *Alchemilla vulgaris* agg., *Agrostis capillaris*, *Festuca rubra* s. l., *Trifolium repens*, *Trifolium pratense* s. l., *Rumex arifolius*, *Rhytidadelphus squarrosus*, *Poa trivialis*, *Poa pratensis* s. l., *Cynosurus cristatus*, *Bistorta vivipara*, *Atrichum undulatum*, *Anthoxanthum odoratum* s. l.

Ass.15. *Alchemilletum pastoralis* Szafer et al. 1927

Number of relevés: 9

Mean number of species: 39



Diagnostic species: *Poa alpina*, *Phleum alpinum*, *Polytrichum juniperinum*, *Calliergonella lindbergii*, *Gnaphalium sylvaticum*, *Potentilla aurea*, *Soldanella carpatica*, *Ranunculus lanuginosus*, *Jacobaea subalpina*, *Rumex arifolius*, *Arabidopsis halleri*, *Crocus vernus*, *Geranium sylvaticum*, *Alchemilla vulgaris* agg., *Chaerophyllum hirsutum*

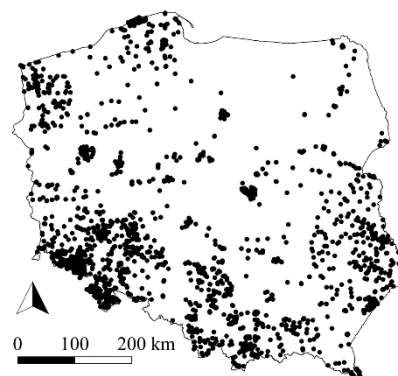
Constant species: *Ranunculus acris*, *Poa alpina*, *Alchemilla vulgaris* agg., *Taraxacum* sect. *Ruderalia*, *Cerastium fontanum* subsp. *vulgare*, *Agrostis capillaris*, *Poa trivialis*, *Leontodon hispidus*, *Deschampsia cespitosa*, *Achillea millefolium* agg., *Veronica chamaedrys*, *Trifolium repens*, *Trifolium pratense* s. l., *Poa pratensis* s. l., *Phleum alpinum*, *Festuca rubra* s. l., *Arabidopsis halleri*, *Rumex arifolius*, *Ranunculus repens*, *Prunella vulgaris*, *Potentilla aurea*, *Luzula multiflora*, *Jacobaea subalpina*, *Hypericum maculatum*, *Chaerophyllum hirsutum*, *Anthoxanthum odoratum* s. l., *Schedonorus pratensis*, *Primula elatior*, *Nardus stricta*, *Myosotis scorpioides* s. l., *Gnaphalium sylvaticum*, *Cynosurus cristatus*, *Carum carvi*, *Bistorta officinalis*

Dominant species: *Alchemilla vulgaris* agg., *Agrostis capillaris*, *Poa trivialis*, *Festuca rubra* s. l., *Cynosurus cristatus*, *Bistorta vivipara*

O.2. *Molinietalia caeruleae* Koch 1926

Number of relevés: 4466

Mean number of species: 27



Diagnostic species: *Filipendula ulmaria*, *Lotus pedunculatus*, *Molinia caerulea* s. l., *Equisetum palustre*, *Galium uliginosum*, *Deschampsia cespitosa*, *Bistorta officinalis*, *Scirpus sylvaticus*, *Selinum carvifolia*, *Geum rivale*, *Carex panicea*, *Cirsium rivulare*, *Cirsium oleraceum*, *Silene flos-cuculi*, *Sanguisorba officinalis*, *Crepis paludosa*, *Succisa pratensis*, *Juncus effusus*, *Lysimachia vulgaris*, *Carex nigra*, *Lythrum salicaria*, *Caltha palustris*, *Cirsium palustre*, *Lathyrus pratensis*, *Carex acutiformis*, *Galium boreale*, *Ranunculus auricomus*, *Holcus lanatus*, *Alopecurus pratensis*, *Geranium palustre*, *Angelica sylvestris*, *Juncus conglomeratus*, *Serratula tinctoria*, *Dactylorhiza majalis* s. l.

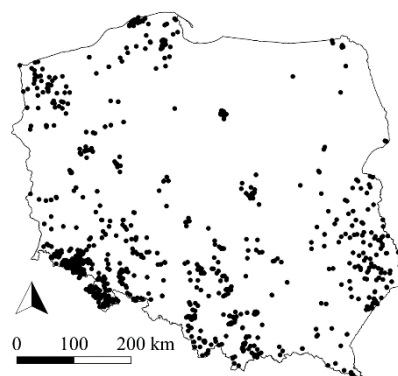
Constant species: *Deschampsia cespitosa*, *Rumex acetosa*, *Ranunculus acris*, *Holcus lanatus*, *Silene flos-cuculi*, *Festuca rubra* s. l., *Ranunculus repens*, *Poa pratensis* s. l., *Alopecurus pratensis*, *Lathyrus pratensis*, *Filipendula ulmaria*

Dominant species: *Molinia caerulea* s. l., *Alopecurus pratensis*, *Deschampsia cespitosa*, *Scirpus sylvaticus*, *Filipendula ulmaria*, *Cirsium rivulare*, *Juncus effusus*, *Holcus lanatus*, *Bistorta officinalis*

All.5. *Calthion palustris* Tüxen 1937

Number of relevés: 1518

Mean number of species: 27



Diagnostic species: *Scirpus sylvaticus*, *Caltha palustris*, *Juncus effusus*, *Cirsium rivulare*, *Equisetum palustre*, *Crepis paludosa*, *Carex nigra*, *Lotus pedunculatus*, *Climacium dendroides*, *Cirsium oleraceum*, *Calliergonella cuspidata*, *Myosotis scorpioides* s. l., *Geum rivale*, *Galium palustre* agg., *Bistorta officinalis*

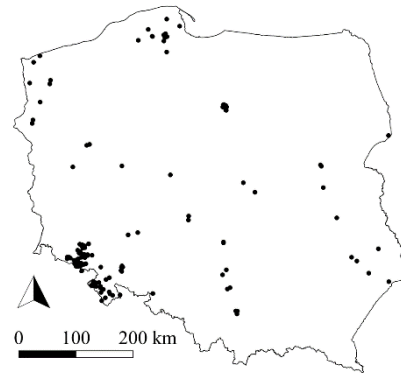
Constant species: *Ranunculus acris*, *Deschampsia cespitosa*, *Rumex acetosa*, *Silene flos-cuculi*, *Myosotis scorpioides* s. l., *Holcus lanatus*, *Ranunculus repens*, *Scirpus sylvaticus*, *Filipendula ulmaria*, *Equisetum palustre*, *Lotus pedunculatus*, *Juncus effusus*, *Festuca rubra* s. l., *Poa trivialis*, *Lathyrus pratensis*, *Caltha palustris*, *Alopecurus pratensis*

Dominant species: *Scirpus sylvaticus*, *Cirsium rivulare*, *Juncus effusus*, *Bistorta officinalis*, *Cirsium oleraceum*, *Deschampsia cespitosa*, *Climacium dendroides*, *Calliergonella cuspidata*

**Ass.16. *Angelico sylvestris*-*Cirsietum oleracei* Tüxen
1937**

Number of relevés: 186

Mean number of species: 32



Diagnostic species: *Cirsium oleraceum*, *Geum rivale*, *Bistorta officinalis*, *Crepis paludosa*, *Caltha palustris*

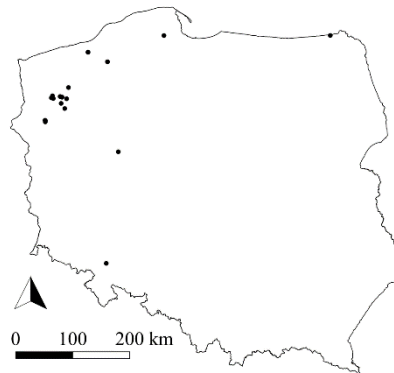
Constant species: *Bistorta officinalis*, *Ranunculus acris*, *Cirsium oleraceum*, *Equisetum palustre*, *Myosotis scorpioides* s. l., *Geum rivale*, *Silene flos-cuculi*, *Filipendula ulmaria*, *Caltha palustris*, *Crepis paludosa*, *Deschampsia cespitosa*, *Angelica sylvestris*, *Rumex acetosa*, *Lotus pedunculatus*, *Scirpus sylvaticus*, *Holcus lanatus*, *Ranunculus repens*, *Lathyrus pratensis*, *Festuca rubra* s. l., *Anthoxanthum odoratum* s. l., *Galium uliginosum*, *Schedonorus pratensis*, *Poa trivialis*, *Carex panicea*, *Alopecurus pratensis*

Dominant species: *Cirsium oleraceum*, *Bistorta officinalis*, *Climacium dendroides*, *Calliergonella cuspidata*, *Deschampsia cespitosa*

**Ass.17. *Polygono bistortae*-*Trollietum europaei*
(Hundt 1964) Bal.-Tul. 1981**

Number of relevés: 26

Mean number of species: 32



Diagnostic species: *Trollius europaeus* s. l., *Primula veris*, *Fraxinus excelsior*-sl, *Geum rivale*, *Crepis paludosa*, *Bistorta officinalis*, *Ranunculus auricomus*, *Equisetum palustre*, *Caltha palustris*, *Valeriana dioica*, *Plagiomnium undulatum*, *Eriophorum latifolium*, *Alnus glutinosa*-sl

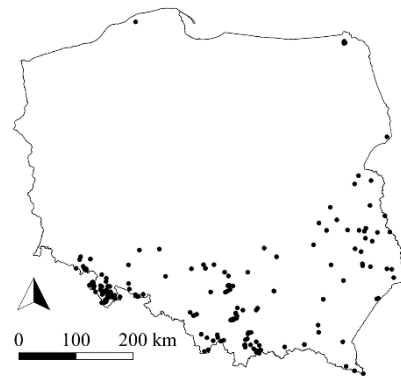
Constant species: *Trollius europaeus* s. l., *Bistorta officinalis*, *Rumex acetosa*, *Ranunculus acris*, *Geum rivale*, *Equisetum palustre*, *Crepis paludosa*, *Lathyrus pratensis*, *Poa pratensis* s. l., *Caltha palustris*, *Alopecurus pratensis*, *Ranunculus auricomus*, *Silene flos-cuculi*, *Cirsium oleraceum*, *Cardamine pratensis*, *Angelica sylvestris*, *Myosotis scorpioides* s. l., *Holcus lanatus*, *Climacium dendroides*, *Veronica chamaedrys*, *Selinum carvifolia*, *Galium uliginosum*, *Filipendula ulmaria*, *Festuca rubra* s. l., *Deschampsia cespitosa*, *Dactylorhiza majalis* s. l., *Carex nigra*

Dominant species: *Trollius europaeus* s. l., *Bistorta officinalis*, *Rumex acetosa*, *Calliergonella cuspidata*, *Avenula pubescens*

Ass.18. *Cirsietum rivularis* Nowiński 1927

Number of relevés: 237

Mean number of species: 32



Diagnostic species: *Cirsium rivulare*

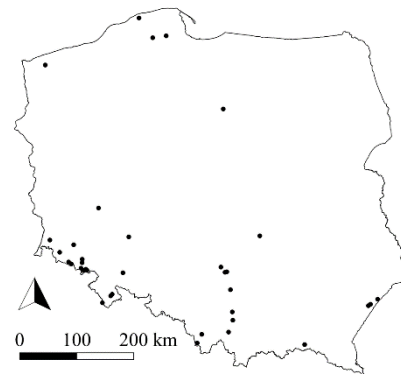
Constant species: *Cirsium rivulare*, *Rumex acetosa*, *Ranunculus acris*, *Silene flos-cuculi*, *Deschampsia cespitosa*, *Ranunculus repens*, *Myosotis scorpioides* s. l., *Lathyrus pratensis*, *Anthoxanthum odoratum* s. l., *Schedonorus pratensis*, *Holcus lanatus*, *Poa trivialis*, *Equisetum palustre*, *Caltha palustris*, *Angelica sylvestris*, *Festuca rubra* s. l., *Filipendula ulmaria*, *Alopecurus pratensis*, *Carex panicea*, *Poa pratensis* s. l., *Crepis paludosa*, *Cerastium fontanum* subsp. *vulgare*, *Alchemilla vulgaris* agg.

Dominant species: *Cirsium rivulare*, *Climacium dendroides*, *Holcus lanatus*, *Calliergonella cuspidata*

**Ass.19. *Angelico sylvestris*-*Cirsietum palustris*
Darimont ex Balátová-Tuláčková 1973**

Number of relevés: 40

Mean number of species: 32



Diagnostic species: *Carex nigra*, *Lotus pedunculatus*, *Carex echinata*, *Dactylorhiza majalis* s. l., *Carex panicea*

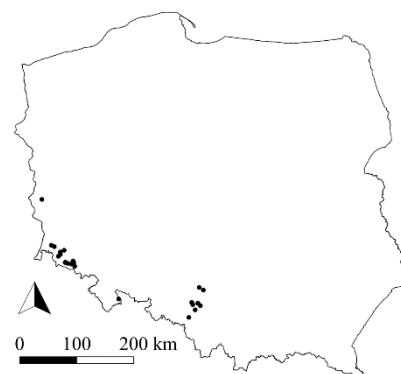
Constant species: *Lotus pedunculatus*, *Carex nigra*, *Silene flos-cuculi*, *Deschampsia cespitosa*, *Myosotis scorpioides* s. l., *Ranunculus acris*, *Carex panicea*, *Galium uliginosum*, *Anthoxanthum odoratum* s. l., *Rumex acetosa*, *Holcus lanatus*, *Equisetum palustre*, *Cirsium palustre*, *Festuca rubra* s. l., *Ranunculus repens*, *Juncus effusus*, *Poa trivialis*, *Dactylorhiza majalis* s. l., *Crepis paludosa*, *Caltha palustris*, *Angelica sylvestris*, *Filipendula ulmaria*, *Scirpus sylvaticus*, *Bistorta officinalis*

Dominant species: *Climacium dendroides*, *Equisetum palustre*, *Bistorta officinalis*, *Myosotis scorpioides* s. l., *Holcus lanatus*, *Deschampsia cespitosa*, *Carex panicea*, *Lotus pedunculatus*, *Carex hartmanii*, *Calliergonella cuspidata*

**Ass.20. *Crepido paludosae*-*Juncetum acutiflori*
Oberdorfer 1957**

Number of relevés: 32

Mean number of species: 22



Diagnostic species: *Juncus acutiflorus*, *Lotus pedunculatus*, *Cirsium palustre*

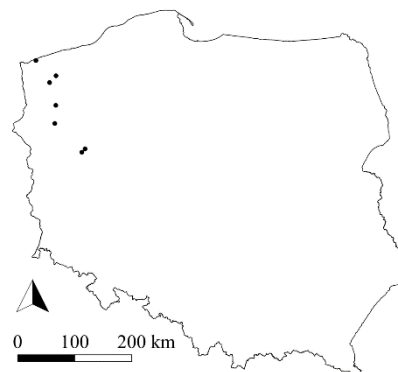
Constant species: *Juncus acutiflorus*, *Lotus pedunculatus*, *Holcus lanatus*, *Cirsium palustre*, *Lysimachia vulgaris*, *Angelica sylvestris*, *Galium palustre* agg., *Rumex acetosa*, *Ranunculus acris*, *Deschampsia cespitosa*, *Festuca rubra* s. l., *Myosotis scorpioides* s. l., *Juncus effusus*, *Alopecurus pratensis*

Dominant species: *Juncus acutiflorus*, *Holcus lanatus*, *Lotus pedunculatus*, *Deschampsia cespitosa*, *Carex brizoides*, *Bistorta officinalis*

**Ass.21. *Juncetum subnodulosi* Koch 1926 em.
Oberdorfer 1957**

Number of relevés: 8

Mean number of species: 27



Diagnostic species: *Juncus subnodulosus*, *Tomentypnum nitens*, *Thelypteris palustris*, *Aulacomnium palustre*, *Carex appropinquata*, *Comarum palustre*, *Parnassia palustris*, *Pedicularis palustris*, *Epipactis palustris*, *Plagiomnium ellipticum*, *Campylium stellatum*, *Valeriana dioica*, *Salix repens* s. l.-hl, *Carex rostrata*, *Bryum pseudotriquetrum*, *Plagiomnium elatum*, *Galium uliginosum*, *Cirsium oleraceum*, *Climacium dendroides*, *Cirsium palustre*

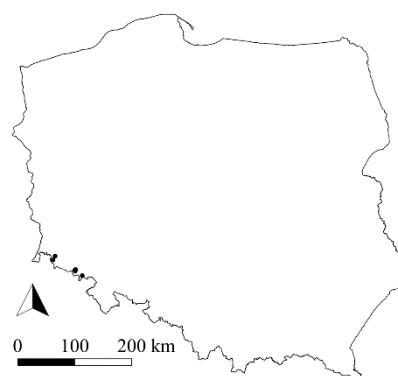
Constant species: *Juncus subnodulosus*, *Galium uliginosum*, *Cirsium palustre*, *Cirsium oleraceum*, *Tomentypnum nitens*, *Myosotis scorpioides* s. l., *Lotus pedunculatus*, *Crepis paludosa*, *Climacium dendroides*, *Bistorta officinalis*, *Valeriana dioica*, *Thelypteris palustris*, *Plagiomnium elatum*, *Parnassia palustris*, *Lythrum salicaria*, *Holcus lanatus*, *Geum rivale*, *Dactylorhiza majalis* s. l., *Comarum palustre*, *Aulacomnium palustre*

Dominant species: *Juncus subnodulosus*, *Tomentypnum nitens*, *Lotus pedunculatus*

**Ass.22. *Polygono bistortae*-*Cirsietum heterophylli*
Balátová-Tuláčková 1975**

Number of relevés: 6

Mean number of species: 27



Diagnostic species: *Cirsium helenioides*, *Achillea ptarmica*, *Bistorta officinalis*

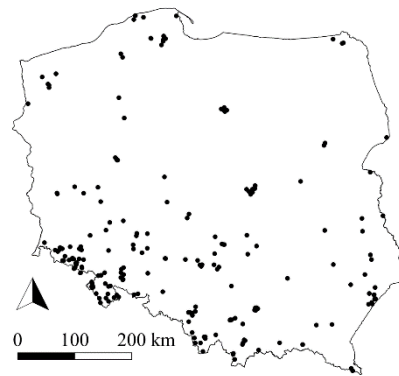
Constant species: *Cirsium helenioides*, *Bistorta officinalis*, *Deschampsia cespitosa*, *Lotus pedunculatus*, *Juncus effusus*, *Hypericum maculatum*, *Geum rivale*, *Festuca rubra* s. l., *Carex panicea*, *Achillea millefolium* agg., *Vicia cracca*, *Veronica chamaedrys*, *Stellaria graminea*, *Rumex acetosa*, *Primula elatior*, *Potentilla erecta*, *Myosotis scorpioides* s. l., *Galium uliginosum*, *Filipendula ulmaria*, *Crepis paludosa*, *Chaerophyllum hirsutum*, *Alchemilla vulgaris* agg., *Agrostis capillaris*, *Achillea ptarmica*

Dominant species: *Cirsium helenioides*, *Carex panicea*, *Bistorta officinalis*

Ass.23. *Scirpetum sylvatici* Ralski 1931

Number of relevés: 295

Mean number of species: 21



Diagnostic species: *Scirpus sylvaticus*

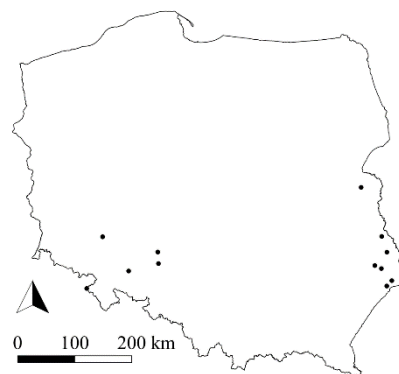
Constant species: *Scirpus sylvaticus*, *Myosotis scorpioides* s. l., *Juncus effusus*, *Equisetum palustre*, *Rumex acetosa*, *Poa trivialis*, *Ranunculus repens*, *Lotus pedunculatus*, *Alopecurus pratensis*, *Filipendula ulmaria*, *Deschampsia cespitosa*, *Caltha palustris*

Dominant species: *Scirpus sylvaticus*, *Climacium dendroides*

Ass.24. *Scirpo sylvatici-Cirsietum cani* Balátová-Tuláčková 1973

Number of relevés: 16

Mean number of species: 31



Diagnostic species: *Cirsium canum*, *Campyliadelphus chrysophyllus*, *Calliergon giganteum*, *Silaum silaus*, *Valeriana officinalis*

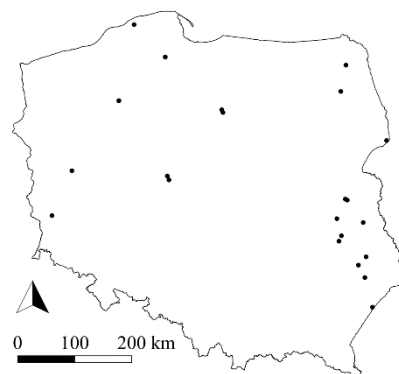
Constant species: *Cirsium canum*, *Deschampsia cespitosa*, *Schedonorus pratensis*, *Festuca rubra* s. l., *Ranunculus acris*, *Poa pratensis* s. l., *Silene flos-cuculi*, *Selinum carvifolia*, *Holcus lanatus*, *Centaurea jacea* agg., *Anthoxanthum odoratum* s. l., *Sanguisorba officinalis*, *Phleum pratense*, *Lythrum salicaria*, *Lathyrus pratensis*, *Cirsium rivulare*, *Carex panicea*, *Argentina anserina*, *Alopecurus pratensis*, *Achillea millefolium* agg.

Dominant species: *Cirsium canum*, *Equisetum palustre*, *Deschampsia cespitosa*, *Climacium dendroides*

Ass.25. *Caricetum cespitosae* Steffen 1931

Number of relevés: 30

Mean number of species: 27



Diagnostic species: *Carex cespitosa*, *Drepanocladus sendtneri*, *Scorpidium cossoni*, *Carex elata*, *Drepanocladus aduncus*, *Carex diandra*, *Betula pubescens*-sl, *Carex appropinquata*, *Carex lasiocarpa*, *Veronica scutellata*,

Calliergonella cuspidata, *Hamatocaulis vernicosus*, *Hygroamblystegium humile*, *Climacium dendroides*, *Calliergon giganteum*, *Peucedanum palustre*

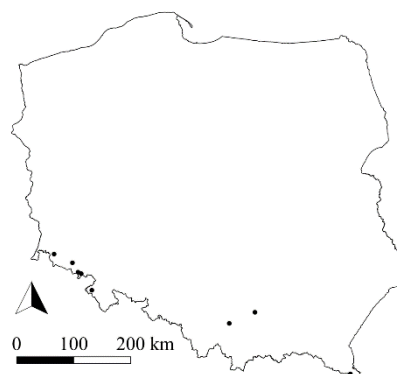
Constant species: ***Carex cespitosa***, ***Silene flos-cuculi***, ***Calliergonella cuspidata***, ***Filipendula ulmaria***, *Ranunculus repens*, *Climacium dendroides*, *Ranunculus acris*, *Poa pratensis* s. l., *Cardamine pratensis*, *Myosotis scorpioides* s. l., *Galium uliginosum*, *Festuca rubra* s. l., *Caltha palustris*, *Lythrum salicaria*, *Galium palustre* agg., *Equisetum palustre*

Dominant species: ***Carex cespitosa***, *Calliergonella cuspidata*, *Climacium dendroides*, *Valeriana officinalis*, *Juncus effusus*

Ass.26. *Scirpo sylvatici-Caricetum brizoidis* Kučera et al. 1994

Number of relevés: 9

Mean number of species: 28



Diagnostic species: ***Carex brizoides***, ***Impatiens noli-tangere***, *Juncus effusus*, *Cirsium rivulare*

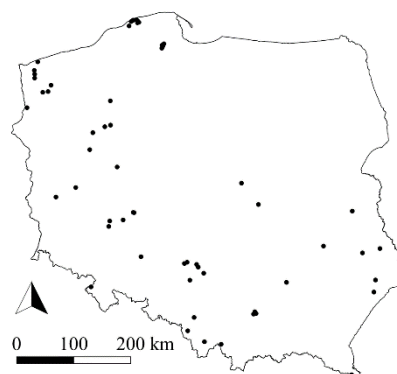
Constant species: ***Carex brizoides***, ***Juncus effusus***, ***Lathyrus pratensis***, ***Cirsium rivulare***, ***Angelica sylvestris***, *Myosotis scorpioides* s. l., *Equisetum palustre*, *Deschampsia cespitosa*, *Cirsium oleraceum*, *Alopecurus pratensis*, *Veronica chamaedrys*, *Scirpus sylvaticus*, *Rumex acetosa*, *Ranunculus acris*, *Poa trivialis*, *Hypericum maculatum*, *Heracleum sphondylium* s. l., *Galium palustre* agg., *Filipendula ulmaria*, *Cirsium palustre*, *Bistorta officinalis*

Dominant species: ***Carex brizoides***, ***Cirsium oleraceum***, *Cirsium rivulare*, *Bistorta officinalis*

Ass.27. *Epilobio palustri-Juncetum effusi* Oberdorfer 1957

Number of relevés: 73

Mean number of species: 24



Diagnostic species: ***Juncus effusus***, ***Epilobium palustre***, ***Ranunculus flammula***

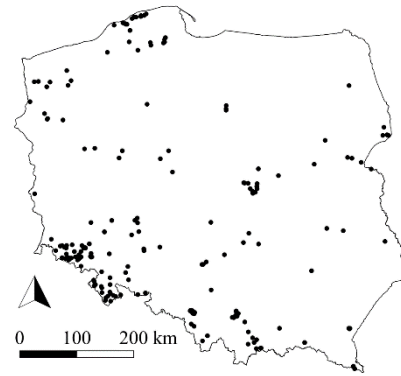
Constant species: ***Juncus effusus***, ***Deschampsia cespitosa***, *Lysimachia vulgaris*, *Ranunculus repens*, *Epilobium palustre*, *Lythrum salicaria*, *Galium palustre* agg., *Holcus lanatus*, *Carex nigra*

Dominant species: ***Juncus effusus***, *Deschampsia cespitosa*, *Calliergonella cuspidata*

**All.6. *Filipendulion ulmariae* Segal ex Westhoff et
Den Held 1969**

Number of relevés: 313

Mean number of species: 21



Diagnostic species: *Filipendula ulmaria*, *Geranium palustre*, *Lythrum salicaria*, *Lysimachia vulgaris*, *Scirpus sylvaticus*, *Equisetum palustre*, *Mentha longifolia*, *Equisetum fluviatile*, *Urtica dioica*, *Cirsium oleraceum*

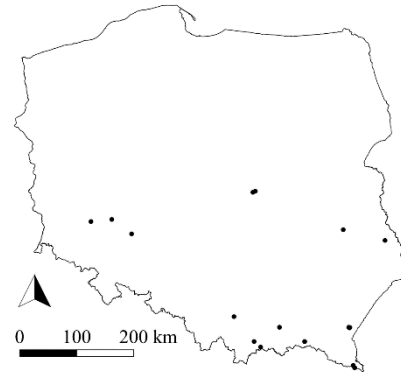
Constant species: *Filipendula ulmaria*, *Lysimachia vulgaris*, *Deschampsia cespitosa*, *Lythrum salicaria*, *Equisetum palustre*

Dominant species: *Filipendula ulmaria*, *Lysimachia vulgaris*, *Geranium palustre*, *Mentha longifolia*

**Ass.28. *Junco inflexi*-*Menthetum longifoliae*
Lohmeyer ex Oberdorfer 1957**

Number of relevés: 28

Mean number of species: 22



Diagnostic species: *Mentha longifolia*, *Juncus inflexus*, *Valeriana dioica* subsp. *simplicifolia*, *Dryopteris filix-mas*

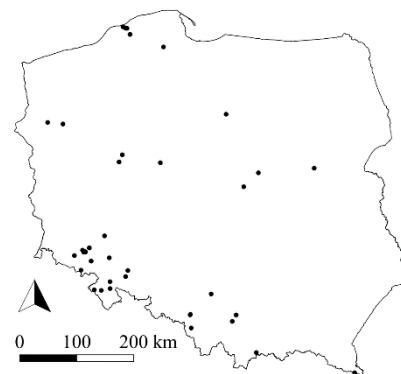
Constant species: *Mentha longifolia*, *Equisetum palustre*, *Scirpus sylvaticus*, *Galium mollugo* agg., *Ranunculus acris*, *Cirsium rivulare*

Dominant species: *Mentha longifolia*, *Juncus inflexus*, *Filipendula ulmaria*, *Equisetum palustre*, *Scorpidium revolvens*, *Lysimachia vulgaris*, *Carex brizoides*, *Brachytheciastrum velutinum*

**Ass.29. *Filipendulo ulmariae*-*Geranietum palustris*
Koch 1926**

Number of relevés: 62

Mean number of species: 18



Diagnostic species: *Geranium palustre*, *Filipendula ulmaria*

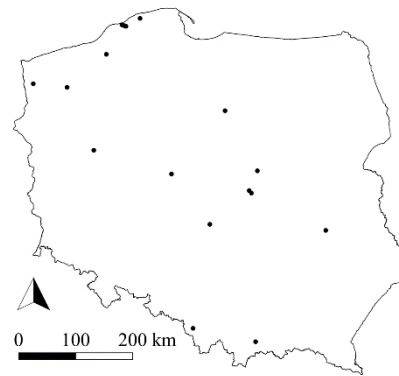
Constant species: *Geranium palustre*, *Filipendula ulmaria*, *Lathyrus pratensis*, *Cirsium oleraceum*, *Ranunculus acris*, *Alopecurus pratensis*

Dominant species: *Geranium palustre*, *Filipendula ulmaria*, *Poa trivialis*

Ass.30. *Lythro-Filipenduletum ulmariae* Hadač et al. 1997

Number of relevés: 21

Mean number of species: 16



Diagnostic species: *Lythrum salicaria*

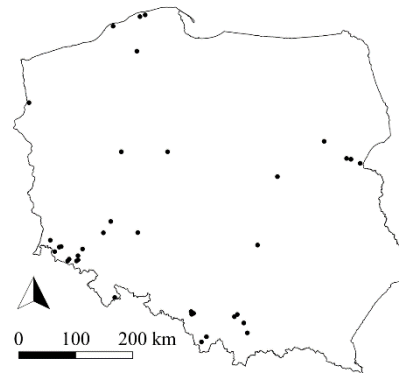
Constant species: *Lythrum salicaria*, *Filipendula ulmaria*, *Lotus pedunculatus*, *Deschampsia cespitosa*, *Equisetum palustre*, *Urtica dioica*, *Lysimachia vulgaris*

Dominant species: *Filipendula ulmaria*, *Lythrum salicaria*, *Schedonorus pratensis*, *Geum rivale*, *Deschampsia cespitosa*

Ass.31. *Lysimachio vulgaris-Filipenduletum ulmariae* Balátová-Tuláčková 1978

Number of relevés: 42

Mean number of species: 22



Diagnostic species: *Lysimachia vulgaris*, *Calamagrostis neglecta*, *Achillea salicifolia*

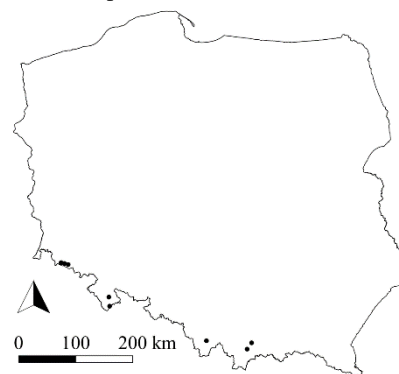
Constant species: *Lysimachia vulgaris*, *Filipendula ulmaria*

Dominant species: *Lysimachia vulgaris*, *Filipendula ulmaria*, *Calliergonella cuspidata*

Ass.32. *Chaerophyllo hirsuti-Filipenduletum ulmariae* Niemann et al. 1973

Number of relevés: 8

Mean number of species: 24



Diagnostic species: *Chaerophyllum hirsutum*, *Cardamine amara* subsp. *amara*, *Equisetum sylvaticum*, *Crepis paludosa*, *Equisetum fluviatile*, *Filipendula ulmaria*

Constant species: *Chaerophyllum hirsutum*, *Filipendula ulmaria*, *Silene flos-cuculi*, *Equisetum palustre*, *Crepis paludosa*, *Poa trivialis*, *Myosotis scorpioides* s. l., *Juncus effusus*, *Equisetum sylvaticum*, *Equisetum fluviatile*, *Cirsium rivulare*, *Caltha palustris*, *Alopecurus pratensis*, *Alchemilla vulgaris* agg.

Dominant species: *Filipendula ulmaria*, *Plagiomnium undulatum*, *Plagiomnium affine* s. l., *Lysimachia vulgaris*

**Ass.33. *Phragmiti-Euphorbietum palustris* Issler
1932**

Number of relevés: 3

Mean number of species: 19



Diagnostic species: *Euphorbia palustris*, *Calystegia sepium*, *Barbarea vulgaris*, *Jacobaea paludosa*, *Thalictrum flavum*, *Symphytum officinale*, *Stachys palustris*, *Phragmites australis*, *Iris pseudacorus*, *Urtica dioica*

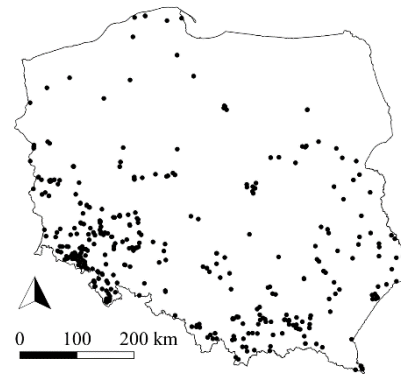
Constant species: *Urtica dioica*, *Symphytum officinale*, *Phragmites australis*, *Lysimachia vulgaris*, *Filipendula ulmaria*, *Euphorbia palustris*, *Calystegia sepium*, *Thalictrum flavum*, *Stachys palustris*, *Phalaroides arundinacea*, *Lythrum salicaria*, *Iris pseudacorus*, *Equisetum fluviatile*, *Barbarea vulgaris*

Dominant species: *Euphorbia palustris*

All.7. *Deschampsion cespitosae* Horvatić 1930

Number of relevés: 557

Mean number of species: 24



Diagnostic species: *Alopecurus pratensis*, *Carex praecox* agg., *Allium angulosum*, *Selinum dubium*

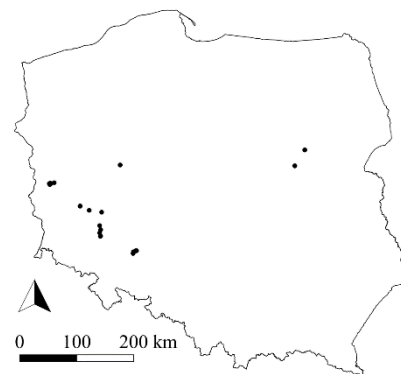
Constant species: *Alopecurus pratensis*, *Rumex acetosa*, *Poa pratensis* s. l., *Ranunculus repens*, *Lathyrus pratensis*, *Ranunculus acris*, *Holcus lanatus*, *Deschampsia cespitosa*, *Festuca rubra* s. l., *Vicia cracca*

Dominant species: *Alopecurus pratensis*, *Carex praecox* agg., *Sanguisorba officinalis*, *Poa pratensis* s. l., *Holcus lanatus*

**Ass.34. *Lathyro palustris-Gratioletum officinalis*
Balátová-Tuláčková 1966**

Number of relevés: 35

Mean number of species: 20



Diagnostic species: *Allium angulosum*, *Carex praecox* agg., *Juncus atratus*, *Selinum dubium*, *Gratiola officinalis*, *Thalictrum lucidum*, *Allium oleraceum*

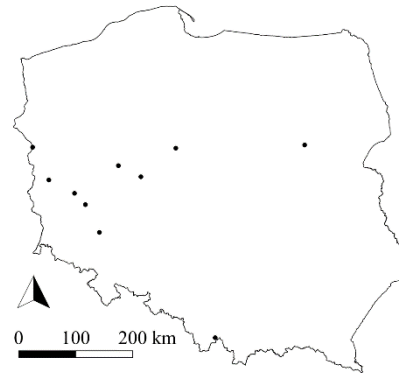
Constant species: *Allium angulosum*, *Alopecurus pratensis*, *Poa pratensis* s. l., *Carex praecox* agg., *Vicia cracca*, *Lathyrus pratensis*, *Selinum dubium*, *Sanguisorba officinalis*, *Rumex acetosa*, *Potentilla reptans*

Dominant species: *Alopecurus pratensis*, *Juncus atratus*, *Carex praecox* agg., *Selinum dubium*, *Sanguisorba officinalis*, *Poa pratensis* s. l., *Galium boreale*, *Poa trivialis*

Ass.35. *Cnidio dubii*-*Deschampsietum cespitosae*
Passarge 1960

Number of relevés: 12

Mean number of species: 28



Diagnostic species: *Viola stagnina*, *Selinum dubium*, *Scutellaria hastifolia*, *Stellaria palustris*, *Carex caryophyllea*, *Thalictrum flavum*, *Potentilla reptans*, *Carex vulpina* s. l., *Iris pseudacorus*, *Carex acuta*

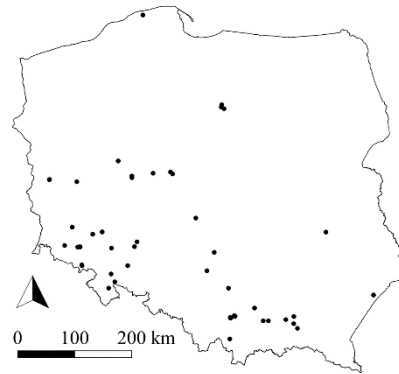
Constant species: *Selinum dubium*, *Vicia cracca*, *Deschampsia cespitosa*, *Alopecurus pratensis*, *Viola stagnina*, *Poa pratensis* s. l., *Silene flos-cuculi*, *Stellaria palustris*, *Potentilla reptans*, *Rumex acetosa*, *Lathyrus pratensis*, *Holcus lanatus*, *Argentina anserina*, *Lysimachia vulgaris*, *Lysimachia nummularia*, *Cirsium arvense*, *Carex acuta*

Dominant species: *Selinum dubium*, *Viola stagnina*, *Deschampsia cespitosa*, *Poa pratensis* s. l., *Iris sibirica*, *Inula salicina*, *Agrostis capillaris*

Ass.36. *Poa trivialis*-*Alopecuretum pratensis* Regel
1925

Number of relevés: 61

Mean number of species: 23



Diagnostic species: *Alopecurus pratensis*

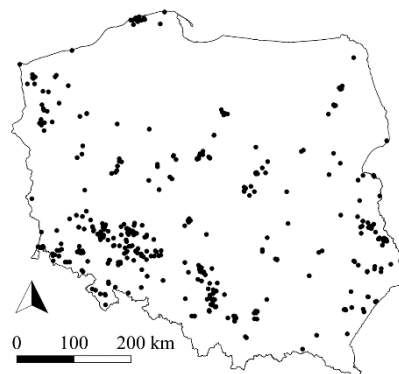
Constant species: *Alopecurus pratensis*, *Rumex acetosa*, *Ranunculus repens*, *Poa trivialis*, *Poa pratensis* s. l., *Lathyrus pratensis*, *Holcus lanatus*, *Ranunculus acris*, *Silene flos-cuculi*, *Lysimachia nummularia*, *Taraxacum* sect. *Ruderalia*, *Deschampsia cespitosa*, *Glechoma hederacea* s. l.

Dominant species: *Alopecurus pratensis*, *Poa pratensis* s. l., *Poa trivialis*, *Sanguisorba officinalis*, *Holcus lanatus*

All.8. *Molinion caeruleae* Koch 1926

Number of relevés: 816

Mean number of species: 32



Diagnostic species: *Molinia caerulea* s. l., *Succisa pratensis*, *Galium boreale*, *Selinum carvifolia*, *Stachys officinalis*, *Serratula tinctoria*, *Carex panicea*, *Galium verum*, *Potentilla erecta*, *Dianthus superbus*, *Salix repens* s. l.-hl, *Ophioglossum vulgatum*, *Gentiana pneumonanthe*, *Sanguisorba officinalis*, *Frangula alnus*-hl, *Inula salicina*, *Filipendula vulgaris*, *Carex hartmanii*, *Silaum silaus*, *Galium uliginosum*, *Iris sibirica*, *Avenula pubescens*, *Laserpitium prutenicum*, *Carex flacca*, *Epipactis palustris*, *Phragmites australis*, *Centaurea jacea* agg., *Juncus conglomeratus*, *Carex filiformis*, *Carex flava* agg., *Calamagrostis epigejos*, *Salix cinerea*-hl

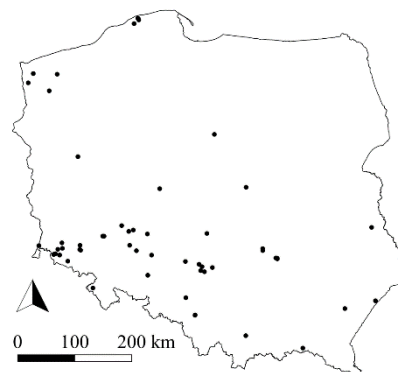
Constant species: *Molinia caerulea* s. l., *Deschampsia cespitosa*, *Potentilla erecta*, *Ranunculus acris*, *Festuca rubra* s. l., *Succisa pratensis*, *Holcus lanatus*, *Centaurea jacea* agg., *Carex panicea*, *Selinum carvifolia*, *Vicia cracca*, *Sanguisorba officinalis*, *Rumex acetosa*, *Poa pratensis* s. l., *Galium boreale*, *Lathyrus pratensis*, *Anthoxanthum odoratum* s. l., *Achillea millefolium* agg., *Silene flos-cuculi*

Dominant species: *Molinia caerulea* s. l., *Galium boreale*, *Stachys officinalis*, *Deschampsia cespitosa*

Ass.37. *Junco effusi*-*Molinietum caeruleae* Tüxen 1954

Number of relevés: 71

Mean number of species: 29



Diagnostic species: *Molinia caerulea* s. l., *Nardus stricta*, *Agrostis canina*, *Succisa pratensis*, *Frangula alnus-hl*, *Carex hartmanii*, *Potentilla erecta*

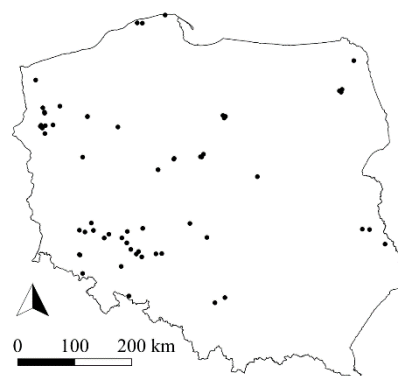
Constant species: *Molinia caerulea* s. l., *Potentilla erecta*, *Festuca rubra* s. l., *Carex panicea*, *Holcus lanatus*, *Nardus stricta*, *Lysimachia vulgaris*, *Succisa pratensis*, *Deschampsia cespitosa*, *Anthoxanthum odoratum* s. l., *Lotus pedunculatus*, *Rumex acetosa*, *Ranunculus acris*, *Galium uliginosum*, *Cirsium palustre*, *Carex nigra*, *Agrostis canina*, *Silene flos-cuculi*, *Selinum carvifolia*

Dominant species: *Molinia caerulea* s. l., *Festuca rubra* s. l.

Ass.38. *Selino carvifoliae*-*Molinietum caeruleae* Kuhn 1937

Number of relevés: 80

Mean number of species: 34



Diagnostic species: *Molinia caerulea* s. l., *Gentianella uliginosa*, *Ophioglossum vulgatum*, *Parnassia palustris*, *Centaureum littorale*, *Cirsium acaulon*, *Pinguicula vulgaris*, *Epipactis palustris*, *Orchis militaris*, *Carex flacca*, *Carex distans*, *Succisa pratensis*, *Geum rivale*

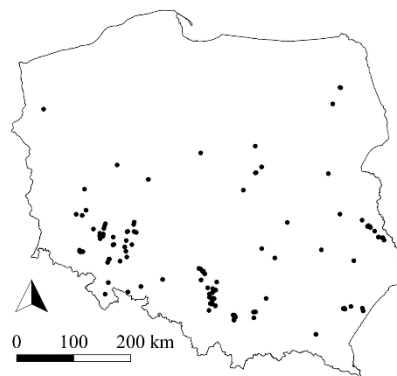
Constant species: *Molinia caerulea* s. l., *Ranunculus acris*, *Carex panicea*, *Geum rivale*, *Galium uliginosum*, *Deschampsia cespitosa*, *Poa pratensis* s. l., *Briza media*, *Potentilla erecta*, *Lythrum salicaria*, *Succisa pratensis*, *Cirsium oleraceum*, *Filipendula ulmaria*, *Festuca rubra* s. l., *Holcus lanatus*, *Vicia cracca*, *Selinum carvifolia*, *Lotus pedunculatus*, *Centaurea jacea* agg., *Prunella vulgaris*, *Phragmites australis*, *Rumex acetosa*, *Achillea millefolium* agg.

Dominant species: *Molinia caerulea* s. l., *Geum rivale*, *Galium boreale*

Ass.39. *Galio veri-Molinietum* Kački 2007

Number of relevés: 207

Mean number of species: 33



Diagnostic species: *Galium boreale*, *Serratula tinctoria*, *Stachys officinalis*, *Molinia caerulea* s. l., *Galium verum*, *Succisa pratensis*, *Selinum carvifolia*, *Gentiana pneumonanthe*, *Sanguisorba officinalis*, *Carex hartmanii*

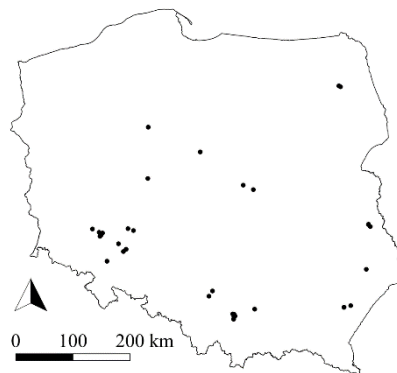
Constant species: *Molinia caerulea* s. l., *Galium boreale*, *Deschampsia cespitosa*, *Stachys officinalis*, *Sanguisorba officinalis*, *Centaurea jacea* agg., *Serratula tinctoria*, *Galium verum*, *Lathyrus pratensis*, *Achillea millefolium* agg., *Selinum carvifolia*, *Ranunculus acris*, *Succisa pratensis*, *Potentilla erecta*, *Holcus lanatus*, *Vicia cracca*, *Festuca rubra* s. l., *Rumex acetosa*, *Poa pratensis* s. l., *Silene flos-cuculi*, *Briza media*, *Anthoxanthum odoratum* s. l., *Schedonorus pratensis*

Dominant species: *Molinia caerulea* s. l., *Galium boreale*, *Stachys officinalis*, *Sanguisorba officinalis*, *Inula salicina*, *Serratula tinctoria*

Ass.40. *Galiatum borealis* Nowiński 1927

Number of relevés: 58

Mean number of species: 39



Diagnostic species: *Filipendula vulgaris*, *Trifolium montanum*, *Stachys officinalis*, *Serratula tinctoria*, *Galium boreale*, *Inula salicina*, *Galium verum*, *Molinia caerulea* s. l., *Dianthus superbus*, *Carex filiformis*, *Campanula glomerata*, *Laserpitium prutenicum*, *Ononis spinosa* subsp. *hircina*, *Ranunculus polyanthemus* s. l., *Sanguisorba officinalis*, *Potentilla alba*, *Peucedanum oreoselinum*, *Iris sibirica*, *Salix repens* s. l.-sl, *Helianthemum nummularium*, *Scorzonera humilis*

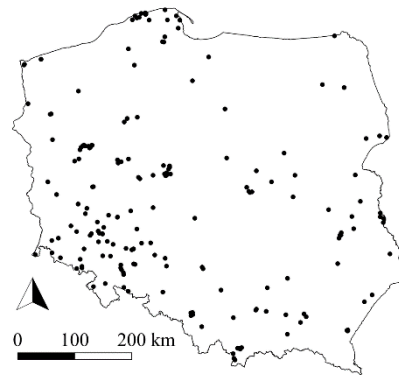
Constant species: *Galium boreale*, *Molinia caerulea* s. l., *Stachys officinalis*, *Serratula tinctoria*, *Sanguisorba officinalis*, *Galium verum*, *Filipendula vulgaris*, *Potentilla erecta*, *Deschampsia cespitosa*, *Centaurea jacea* agg., *Achillea millefolium* agg., *Trifolium montanum*, *Vicia cracca*, *Ranunculus acris*, *Anthoxanthum odoratum* s. l., *Festuca rubra* s. l., *Rumex acetosa*, *Poa pratensis* s. l., *Holcus lanatus*, *Selinum carvifolia*, *Briza media*, *Schedonorus pratensis*, *Leucanthemum vulgare* s. l., *Lathyrus pratensis*, *Succisa pratensis*, *Inula salicina*, *Campanula glomerata*

Dominant species: *Molinia caerulea* s. l., *Galium boreale*, *Stachys officinalis*, *Inula salicina*, *Serratula tinctoria*, *Filipendula vulgaris*, *Climacium dendroides*, *Trollius europaeus* s. l.

O.3. *Potentillo-Polygonetalia avicularis* Tüxen 1947

Number of relevés: 153

Mean number of species: 20



Diagnostic species: *Agrostis stolonifera*, *Alopecurus geniculatus*, *Argentina anserina*, *Ochlopoa annua*, *Rorippa sylvestris*, *Rumex crispus*, *Plantago major* s. l., *Juncus compressus*, *Polygonum aviculare* s. l., *Glyceria fluitans*, *Persicaria hydropiper*, *Rumex maritimus*, *Bidens tripartitus*, *Phalaroides arundinacea*, *Rorippa amphibia*, *Plantago major* subsp. *intermedia*, *Eleocharis palustris* agg., *Matricaria discoidea*

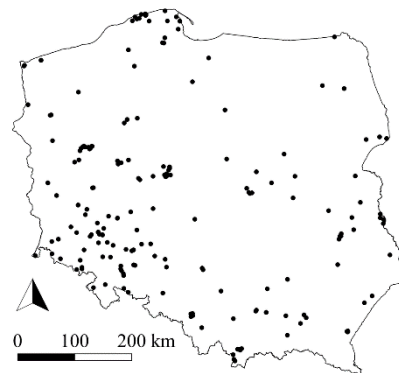
Constant species: *Ranunculus repens*, *Agrostis stolonifera*, *Argentina anserina*

Dominant species: *Agrostis stolonifera*, *Ranunculus repens*, *Argentina anserina*, *Alopecurus geniculatus*, *Juncus compressus*, *Blysmus compressus*

All.9. *Potentillion anserinae* Tüxen 1947

Number of relevés: 264

Mean number of species: 20



Diagnostic species: *Alopecurus geniculatus*, *Agrostis stolonifera*, *Argentina anserina*, *Rorippa sylvestris*, *Rumex crispus*, *Juncus compressus*, *Glyceria fluitans*, *Ochlopoa annua*, *Polygonum aviculare* s. l., *Inula britannica*, *Plantago major* subsp. *intermedia*, *Plantago major* s. l., *Rumex maritimus*, *Phalaroides arundinacea*, *Matricaria discoidea*, *Rorippa amphibia*

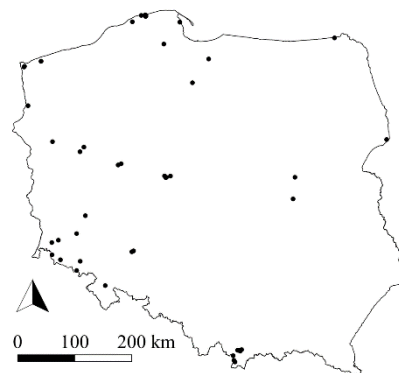
Constant species: *Ranunculus repens*, *Argentina anserina*, *Trifolium repens*

Dominant species: *Ranunculus repens*, *Agrostis stolonifera*, *Argentina anserina*, *Alopecurus geniculatus*, *Schedonorus arundinaceus*, *Potentilla reptans*, *Poa trivialis*, *Juncus compressus*

Ass.41. *Rumici crispi-Agrostietum stoloniferae* Moor 1958

Number of relevés: 61

Mean number of species: 17



Diagnostic species: *Agrostis stolonifera*, *Bolboschoenus maritimus*, *Alopecurus geniculatus*, *Triglochin maritima*, *Schoenoplectus lacustris*, *Myricaria germanica*-hl, *Veronica beccabunga*, *Salix purpurea*-hl

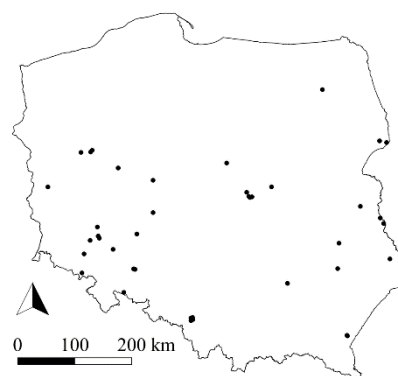
Constant species: *Agrostis stolonifera*, *Ranunculus repens*, *Argentina anserina*

Dominant species: *Agrostis stolonifera*, *Argentina anserina*, *Veronica beccabunga*

**Ass.42. *Ranunculo repentis*-*Alopecuretum geniculati*
Tüxen 1937**

Number of relevés: 52

Mean number of species: 18



Diagnostic species: *Alopecurus geniculatus*, *Alisma plantago-aquatica*, *Glyceria fluitans*, *Persicaria hydropiper*, *Oenanthe aquatica*

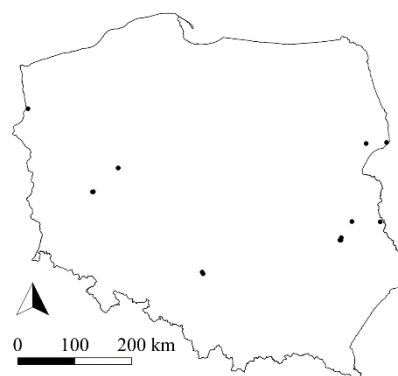
Constant species: *Ranunculus repens*, *Alopecurus geniculatus*, *Argentina anserina*

Dominant species: *Ranunculus repens*, *Alopecurus geniculatus*, *Festuca rubra* s. l.

**Ass.43. *Junco compressi*-*Trifolietum repentis* Eggler
1933**

Number of relevés: 15

Mean number of species: 18



Diagnostic species: *Juncus compressus*, *Blysmus compressus*, *Plantago major* s. l., *Puccinellia distans*, *Lolium perenne*, *Trifolium fragiferum*, *Polygonum aviculare* s. l., *Ochlopoa annua*, *Juncus tenuis*

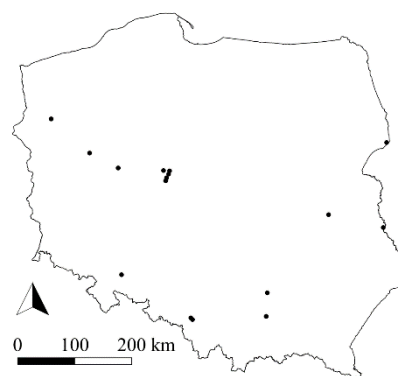
Constant species: *Juncus compressus*, *Trifolium repens*, *Plantago major* s. l., *Argentina anserina*, *Lolium perenne*, *Festuca rubra* s. l., *Blysmus compressus*, *Scorzoneroideis autumnalis*, *Plantago lanceolata*, *Ochlopoa annua*

Dominant species: *Juncus compressus*, *Blysmus compressus*, *Ochlopoa annua*, *Plantago major* s. l., *Calliergonella cuspidata*

Ass.44. *Potentilletum anserinae* Rapaics 1927

Number of relevés: 21

Mean number of species: 18



Diagnostic species: *Ochlopoa annua*, *Stellaria media* s. l., *Polygonum aviculare* s. l., *Matricaria discoidea*, *Argentina anserina*, *Inula britannica*, *Rorippa sylvestris*, *Xanthium strumarium*, *Trifolium incarnatum*, *Lepidium coronopus*, *Anthemis cotula*, *Potentilla supina*, *Galinsoga parviflora*, *Erodium cicutarium*, *Sisymbrium officinale*, *Lolium perenne*, *Arctium tomentosum*, *Plantago major* s. l., *Chenopodium album* agg., *Gnaphalium uliginosum*, *Salix fragilis*-hl, *Atriplex prostrata*, *Odontites vernus*, *Alopecurus geniculatus*, *Agrostis stolonifera*

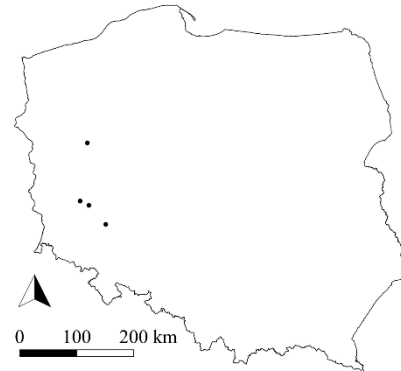
Constant species: ***Argentina anserina***, ***Ochlopoa annua***, ***Trifolium repens***, *Plantago major* s. l., *Ranunculus repens*, *Polygonum aviculare* s. l., *Lolium perenne*, *Agrostis stolonifera*, *Achillea millefolium* agg.

Dominant species: ***Argentina anserina***, *Agrostis stolonifera*, *Plantago major* s. l., *Ochlopoa annua*, *Anthoxanthum odoratum* s. l.

**Ass.45. *Potentilletum reptantis* (Eliáš 1974) Eliáš
1978**

Number of relevés: 4

Mean number of species: 12



Diagnostic species: ***Elymus caninus***, ***Persicaria maculosa***, ***Potentilla reptans***, ***Carex praecox* agg.**

Constant species: ***Potentilla reptans***, *Vicia cracca*, *Symphytum officinale*, *Ranunculus repens*, *Poa pratensis* s. l., *Phalaroides arundinacea*, *Persicaria maculosa*, *Elytrigia repens*, *Elymus caninus*, *Carex praecox* agg., *Argentina anserina*, *Alopecurus pratensis*

Dominant species: ***Potentilla reptans***, *Ranunculus repens*